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[2387] Professor Barrie W. Jones. *Strategies of Life Detection*, edited by O. Botta, J. L. Bada, J. Gómez-Elvira, E. Javaux, F. Selsis and R Summons, Scope: workshop papers. Level: postgraduates/specialists/ advanced hobbyists. *Contemporary Physics*, 51(4):366–367, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:HCP

[2388] Dr. Manuel Vogel. *Handbook of Charged Particle Optics*, 2nd edition, edited by J. Orloff, Scope: handbook/reference. Level: experts/advanced students. *Contemporary Physics*, 51(4):367, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sambles:2010:ASC

[2389] Professor J. R. Sambles. *Aperiodic Structures in Condensed Matter*, by E. M. Barber, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(4):367–369, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sheldon:2010:NPP

[2390] Professor Eric Sheldon. *Nuclear and Particle Physics: An Introduction*, 2nd edition, by B. R. Martin, Scope: textbook. Level: advanced undergraduate, postgraduate and specialist. *Contemporary Physics*, 51(4): 369–370, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2010:CMR

[2391] Dr. J. Rogel-Salazar. *Classical Mechanics and Relativity*, by H. J. W. Müller-Kirsten, Scope: introductory. Level: undergraduate. *Contemporary Physics*, 51(4):370–371, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gibbons:2010:AFC

[2392] Professor G. W. Gibbons. *Antimatter*, by F. Close, Scope: popular account. Level: general readership. *Contemporary Physics*, 51(4):371–372, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Riley:2010:DPJ

[2393] Professor N. Riley. *The Detonation Phenomenon*, by J. H. S. Lee, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(4):372–373,

2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2010:PAN

[2394] Dr. A. H. Harker. *Physics and Applications of Negative Refractive Index Materials*, by S. Anantha Ramakrishna and T. M. Grzegorczyk, Scope: introduction/reference. Level: newcomer to the field and above. *Contemporary Physics*, 51(4):373–374, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2010:ATM

[2395] Assistant Professor Nikolaos E. Myridis. *Advanced Tomographic Methods in Materials Research and Engineering*, edited by J. Banhart, Scope: monograph. Level: undergraduate, postgraduate and postdoctoral workers. *Contemporary Physics*, 51(4):374, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kolosov:2010:BBM

[2396] Dr. Oleg Kolosov. *Biophotonics: Biological and Medical Physics*, Biomedical Engineering, edited by L. Pavesi and P. M. Fauchet, Scope: textbook. Level: graduate students in final year to academics. *Contemporary Physics*, 51(4):375, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kalmus:2010:PPG

[2397] Professor Peter Kalmus. *Playing with Planets*, by Gerard 't Hooft, Scope: popular science. Level: general reader. *Contemporary Physics*, 51(4): 375–376, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:GTA

[2398] Professor Stig Stenholm. *A Group-Theoretical Approach to Quantum Optics*, by A. B. Klimov and S. M. Chumakov, Scope: monograph. Level: advanced lecturer or researcher. *Contemporary Physics*, 51(4): 376–377, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:QCM

[2399] Professor Stig Stenholm. *Quantum Computing without Magic*, by Zdzislaw Meglicki, Scope: textbook. Level: researchers and advanced students. *Contemporary Physics*, 51(4):377–378, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:IPC

[2400] Professor Stig Stenholm. *Information*, Physics and Computation, by Marc Mézard and Andrea Montanari, Scope: monograph. Level: specialist researcher. *Contemporary Physics*, 51(4):378, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:ACM

[2401] Professor Stig Stenholm. *Advanced Condensed Matter Physics*, by L. M. Sander, Scope: textbook. Level: advanced undergraduate and beginning graduate. *Contemporary Physics*, 51(4):378–379, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2010:QTI

[2402] Professor D. G. C. Jones. *Quantum Transport. Introduction to Nanoscience*, by Y. V. Nazarov and Y. M. Blanter, Scope: general introduction. Level: postgraduate students and physicists. *Contemporary Physics*, 51(4):379–380, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2010:PCM

[2403] Professor S. J. Blundell. *A Paradigm Called Magnetism*, by S. Dattagupta, Scope: general introduction. Level: postgraduate. *Contemporary Physics*, 51(4):380, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Williams:2010:AES

[2404] Jonathan P. Williams. The astrophysical environment of the solar birthplace. *Contemporary Physics*, 51(5):381–396, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stoneham:2010:BFA

[2405] Doreen Stoneham and Marshall Stoneham. Beating the forger: authenticating ceramic antiquities. *Contemporary Physics*, 51(5):397–411, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Evans:2010:SPS

[2406] R. M. L. Evans. Statistical physics of shear flow: a non-equilibrium problem. *Contemporary Physics*, 51(5):413–427, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2010:SSS

[2407] Derry W. Jones. Sailing: saga and science. *Contemporary Physics*, 51(5): 429–431, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2010:MMM

[2408] Derry W. Jones. Magnetic mines, molecular models and the mind. *Contemporary Physics*, 51(5):433–437, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stefanovska:2010:BBE

[2409] Dr. Aneta Stefanovska. *The Biophysical Basis of Excitability*, by H. G. Fereira and M. W. Marshall, Scope: research. Level: postgraduate. *Contemporary Physics*, 51(5):439–440, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sambles:2010:MRS

[2410] Professor J. R. Sambles. *Microstructural Randomness and Scaling in Mechanics of Materials*, by M. Ostoja-Starzewski, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(5):440, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Boyd:2010:LTL

[2411] Professor T. J. M. Boyd. *Let there be Light*, by A. Montwill and A. Breslin, Scope: monograph. Level: general reader, undergraduate, graduate physics students. *Contemporary Physics*, 51(5):440–441, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Carroll:2010:MCA

[2412] Professor John E. Carroll. *Metamaterials: Critique and Alternatives*, by B. A. Munk, Scope: research monograph. Level: masters degree and above. *Contemporary Physics*, 51(5):441–444, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:SVS

[2413] Dr. Manuel Vogel. *Superconductivity — A very short introduction*, by S. Blundell, Scope: scientific essay. Level: interested reader. *Contemporary Physics*, 51(5):444, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Athorne:2010:ATD

[2414] Dr. Chris Athorne. *Algebraic Theory of Differential Equations*, edited by M. A. H. MacCallum and A. V. Mikhailov, Scope: workshop proceedings. Level: postgraduate/research level. *Contemporary Physics*, 51(5): 444–445, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Quenby:2010:FHE

[2415] Professor John J. Quenby. *Foundations of High-Energy Astrophysics*, by M. Vietri, Scope: textbook and reference. Level: postgraduate, advanced undergraduate and specialist. *Contemporary Physics*, 51(5):445–446, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2010:MCF

[2416] Professor Miguel A. F. Sanjuán. *Microscopic Chaos*, Fractals and Transport in Nonequilibrium Statistical Mechanics, Advanced Series in Nonlinear Dynamics, Vol. 24, by R. Klages, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):446–447, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sudbery:2010:PAD

[2417] Dr. Tony Sudbery. *Physics and the Art of Dance: Understanding Movement*, by K. Laws and A. Sugano, photographs by M. Swope and G. Schiavone, Scope: monograph. Level: general reader and undergraduate. *Contemporary Physics*, 51(5):447–448, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2010:ILM

[2418] Professor Miguel A. F. Sanjuán. *An Introduction to Lagrangian Mechanics*, by A. J. Brizard, Scope: textbook. Level: undergraduate and graduate students. *Contemporary Physics*, 51(5):448, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2010:SRS

[2419] Professor Miguel A. F. Sanjuán. *Stochastic Resonance. From Suprathreshold Stochastic Resonance to Stochastic Signal Quantization*, by M. D. McDonnell, N. G. Stocks, C. E. M. Pearce and D. Abbott, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):448–449, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zetie:2010:SBG

[2420] Dr. K. P. Zetie. *Stargazing Basics: Getting Started in Recreational Astronomy*, by P. E. Kinzer, Scope: introductory guide. Level: general reader. *Contemporary Physics*, 51(5):449–450, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2010:SQB

[2421] Professor Mark Fox. *Semiconductor Quantum Bits*, edited by F. Henneberger and O. Benson, Scope: research monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):450, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Solomon:2010:QHE

[2422] Professor Allan Solomon. *Quantum Hall Effects. Field Theoretical Approach and Related Topics*, 2nd ed., by Z. F. Ezawa, Scope: encyclopedic compendium. Level: student and researcher. *Contemporary Physics*, 51 (5):450–451, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:UHD

[2423] Professor Stig Stenholm. *The Universe in a Helium Droplet*, by G. E. Volovik, Scope: monograph. Level: research level. *Contemporary Physics*, 51(5):451–452, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:ALV

[2424] Professor Stig Stenholm. *Astrophysical Lasers*, by V. Letokhov and S. Johansson, Scope: monograph. Level: research level. *Contemporary Physics*, 51(5):452–453, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bohmer:2010:IQE

[2425] Dr. C. Böhmer. *Introduction to Quantum Effects in Gravity*, by V. F. Mukhanov and S. Winitzki, Scope: textbook. Level: undergraduate and graduate students, researchers. *Contemporary Physics*, 51(5):453, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:NVS

[2426] Dr. Manuel Vogel. *Nothing: A Very Short Introduction*, by F. Close. Scope: scientific essay. Level: — interested reader. *Contemporary Physics*, 51(5):453–454, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2010:RBF

[2427] Assistant Professor Nikolaos E. Myridis. *Radial Basis Functions*, by M. D. Buhmann, Scope: monograph. Level: general audience, mathematics theorists. *Contemporary Physics*, 51(5):454, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Duxbury:2010:JTE

[2428] Professor Geoffrey Duxbury. *The Jahn–Teller Effect*, by I. B. Bersuker, Scope: monograph. Level: advanced/research. *Contemporary Physics*, 51(5):455, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hobson:2010:PHN

[2429] Professor Peter Hobson. *Polarization Holography*, by L. Nikolova and P. S. Ramanujam, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(5):455–456, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Martin:2010:YHP

[2430] Professor Alan Martin. *You are Here: A Portable History of the Universe*, by C. Potter, Scope: plain text. Level: general reader. *Contemporary Physics*, 51(5):456, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lawrie:2010:AQG

[2431] Professor Ian D. Lawrie. *Approaches to Quantum Gravity*, edited by Daniele Oriti, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(5):457, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2010:SCM

[2432] Dr. Matt Probert. *Symmetry and Condensed Matter Physics — A Computational Approach*, by M. El-Batanouny and F. Wooten, Scope: textbook. Level: active researcher at postgraduation and above. *Contemporary Physics*, 51(5):457–458, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:BCE

[2433] Dr. Stephen H. Ashworth. *The Behaviour of Chemical Elements in Stars*, by C. Jascheck and M. Jasheck, Scope: reference work. Level: postgraduate/specialist. *Contemporary Physics*, 51(5):458–459, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:GVS

[2434] Professor Ken Pounds. *Galaxies: A Very Short Introduction*, by J. Gribbin, Scope: monograph. Level: general reader. *Contemporary Physics*, 51(5):459–460, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Matravers:2010:FBB

[2435] Professor David Matravers. *Finding the Big Bang*, edited by P. J. E. Peebles, L. A. Page, Jr. and R. B. Partridge, Scope: history of science. Level: general reader with an interest in cosmology to specialist in history or philosophy of science. *Contemporary Physics*, 51(5):460–463, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2010:BEC

[2436] Dr. J. Rogel-Salazar. *Bose–Einstein Condensation in Dilute Gases*, 2nd ed., by C. J. Pethick and H. Smith. Scope: textbook. Level: advanced undergraduate and postgraduate. *Contemporary Physics*, 51(5):463, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2010:CIN

[2437] Professor R. S. MacKay. *The Correspondence of Isaac Newton*, Volume V, 1709–1713, edited by A. Rupert Hall and L. Tilling, Scope: reference. Level: specialist in history of science. *Contemporary Physics*, 51(5): 463–464, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:SMB

[2438] Professor Peter V. E. McClintock. *Sirius Matters*, by N. Brosch, Scope: monograph. Level: undergraduates, graduate students, amateur astronomers, educated public. *Contemporary Physics*, 51(5):464–465, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2010:ONS

[2439] Professor S. J. Blundell. *Observing the Night Sky with Binoculars*, by S. J. O'Meara, Scope: popular astronomy. Level: general. *Contemporary Physics*, 51(5):465, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Roussev:2010:SSM

[2440] Professor Ilia I. Roussev. *Solar and Stellar Magnetic Activity*, by C. Schrijver and C. Zwaan, Scope: textbook. Level: specialist, postgraduate, graduate and undergraduate. *Contemporary Physics*, 51(5):466,

2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Roussev:2010:CDH

[2441] Professor Ilia I. Roussev. *Cool Discs, Hot Flows: The Varying Faces of Accreting Compact Objects*, edited by M. Axelsson, Scope: conference proceedings. Level: specialist, postgraduate and graduate. *Contemporary Physics*, 51(5):466–467, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2010:APP

[2442] Dr. Robert C. Smith. *Astrophysics Processes: The Physics of Astronomical Phenomena*, by H. Bradt, Scope: textbook. Level: senior undergraduate/beginning postgraduate. *Contemporary Physics*, 51(5):467, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sangoro:2010:PLC

[2443] Joshua R. Sangoro. *Polymers, Liquids and Colloids in Electric Fields*, edited by Y. Tsori and U. Steiner, Scope: textbook. Level: specialist and non-specialist. *Contemporary Physics*, 51(5):467–468, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tiwari:2010:QCI

[2444] Dr. S. C. Tiwari. *From Quantum Cohomology to Integrable Systems*, by M. A. Guest, Scope: textbook. Level: graduate, researchers. *Contemporary Physics*, 51(5):468–469, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Palffy:2010:NEA

[2445] Adriana Pálffy. Nuclear effects in atomic transitions. *Contemporary Physics*, 51(6):471–496, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gerry:2010:POQ

[2446] Christopher C. Gerry and Jihane Mimih. The parity operator in quantum optical metrology. *Contemporary Physics*, 51(6):497–511, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zavrtanik:2010:UHE

[2447] Danilo Zavrtanik. Ultra high energy cosmic rays. *Contemporary Physics*, 51(6):513–529, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:QQ

[2448] P. J. Bussey. Quantum quicksands. *Contemporary Physics*, 51(6):531–534, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:SEL

[2449] Professor Ken Pounds. *Space Enterprise — Living and Working Offworld in the 21st Century*, by Philip R. Harris, Scope: source book. Level: general reader and specialist. *Contemporary Physics*, 51(6):535, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

vanderWeele:2010:LDU

[2450] Professor Ko van der Weele. *The Light/Dark Universe. Light from Galaxies*, Dark Matter and Dark Energy, by J. M. Overduin and P. S. Wesson, Scope: monograph. Level: informed reader interested in astronomy. *Contemporary Physics*, 51(6):535–536, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:PMN

[2451] Professor Stig Stenholm. *Philosophy of Mathematics and Natural Science*, by H. Weyl. Source: monograph. Level. researchers and advanced students. *Contemporary Physics*, 51(6):537–539, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2010:TGF

[2452] Emeritus Professor Derry W. Jones. *Turbulence*, by Giles Foden, Scope: wartime meteorology and fiction. Level: general reader. *Contemporary Physics*, 51(6):539–540, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:FSP

[2453] Dr. Manuel Vogel. *Future Spacecraft Propulsion Systems*, 2nd ed., by P. A. Czysz and C. Bruno, Scope: electric rockets explained, IAC, propulsion space, spacecraft engines. Level: advanced students and experts on the field. *Contemporary Physics*, 51(6):540–541, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vedral:2010:QSM

[2454] Professor Vlatko Vedral. *Quantum Statistical Mechanics*, by W. C. Schieve and L. P. Horwitz, Scope: basic theory, with applications from

quantum optics to quantum gravity. Level: researchers and advanced students. *Contemporary Physics*, 51(6):541–542, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2010:QIO

[2455] Assistant Professor Nikolaos E. Myridis. *Quantum Information*, Oxford Master Series in Physics, by Stephen M. Barnett, Scope: quantum information, quantum computing and the foundations of quantum theory. Level: undergraduate, graduate and postgraduate. *Contemporary Physics*, 51(6):542–543, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wallis:2010:CIK

[2456] Dr. Max Wallis. *Cosmic Imagery: Key Images in the History of Science*, by John D. Barrow, Scope: key concepts. Level: general reader. *Contemporary Physics*, 51(6):543–544, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2010:CSP

[2457] Dr. M. Jamil. *Computer Solutions in Physics: With Applications in Astrophysics, Biophysics, Differential Equations, and Engineering*, by Steve VanWyk, Scope: monograph. Level: undergraduate students. *Contemporary Physics*, 51(6):544–545, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2010:WMS

[2458] Professor M. Bertolotti. *Waves in Metamaterials*, by L. Solymar and E. Shamonina, Scope: textbook. Level: researchers and advanced students. *Contemporary Physics*, 51(6):545–546, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:UMB

[2459] Dr. Peter J. Bussey. *Universe or Multiverse?*, by Bernard Carr, Scope: review. Level: physicists and philosophers advanced undergraduate and above. *Contemporary Physics*, 51(6):546–550, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pierri-Galvao:2010:NPT

[2460] Dr. Monica Pierri-Galvao. *The New Physics: For the Twenty-first Century*, by Gordon Fraser, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 51(6):550–551, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:DSO

[2461] Professor Peter V. E. McClintock. *Dynamics of Self-Organized and Self-Assembled Structures*, by Rashmi C. Desai and Raymond Kapral, Scope: monograph. Level: professional physicists, researchers, Ph.D. students, advanced undergraduates. *Contemporary Physics*, 51(6):551–552, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:MTI

[2462] Dr. Stephen H. Ashworth. *Measured Tones: The Interplay of Physics and Music*, 3rd edition, by Ian Johnston, Scope: monograph. Level: general reader. *Contemporary Physics*, 51(6):552, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:BSA

[2463] Dr. Stephen H. Ashworth. *Building Scientific Apparatus*, 4th edition, by John H. Moore, Christopher C. Davis, Michael A. Coplan and Sandra E. Greer, Scope: reference. Level: anyone using, designing, modifying or specifying scientific apparatus. *Contemporary Physics*, 51(6): 552–553, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2010:FMI

[2464] Dr. Peter R. T. Munro. *Fundamentals of Medical Imaging*, by Paul Suetens, Scope: textbook and reference. Level: undergraduate, graduate and practicing scientist/engineer. *Contemporary Physics*, 51(6): 553–554, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2010:CTP

[2465] Dr. Peter R. T. Munro. *Computed Tomography: From Photon Statistics to Modern Cone-Beam CT*, by Thorsten M. Buzug, Scope: textbook and reference. Level: graduate and practising scientist/engineer. *Contemporary Physics*, 51(6):554–555, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milonni:2010:ENF

[2466] Dr. Peter W. Milonni. *Electronic Noise and Fluctuations in Solids*, by Sh. Kogan, Scope: general reader, postgraduate and specialist. Level: anyone interested in the theory of fluctuation phenomena. *Contemporary Physics*, 51(6):555, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:FEG

[2467] Professor Ken Pounds. *Formation and Evolution of Galaxy Bulges (IAU S245), Proceedings of the IAU Symposia and Colloquia*, edited by Martin Bureau, E. Athanassoula, and Beatriz Barbuy Scope: wide-ranging review. Level: graduate students and active researchers. *Contemporary Physics*, 51(6):556, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2010:SSC

[2468] Dr. Robert C. Smith. Stellar Spectral Classification, by Richard O. Gray and Christopher J. Corbally, Scope: monograph and reference book. Level: advanced undergraduates, postgraduates and specialists. *Contemporary Physics*, 51(6):556–557, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wickramasinghe:2010:IPI

[2469] Professor N. C. Wickramasinghe. An Introduction to the Physics of Interstellar Dust, by E. Krugel, Scope: textbook. Level: workers in the field of interstellar dust. *Contemporary Physics*, 51(6):557, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:VOI

[2470] Dr. Manuel Vogel. In Vivo Optical Imaging of Brain Function, 2nd ed., edited by Ron D. Frostig, Scope: monograph. Level: advanced graduate and postgraduate researchers. *Contemporary Physics*, 51(6):557–558, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:QFL

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[2486] Professor Mario Bertolotti. *The Essence of Dielectric Waveguides*, by C. Yeh and F. Shimabukuro, Scope: overview. Level: researchers and students in optical communications, photonics and applied electromagnetics. *Contemporary Physics*, 52(1):76–77, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2492] Dr. S. Tiwari. *Hilbert Space Methods in Quantum Mechanics*, by Werner O. Amrein, Scope: handbook. Level: undergraduate. *Contemporary Physics*, 52(1):81–82, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2495] Dr. Peter J. Bussey. *Decoding Reality: The Universe as Quantum Information*, by Vlatko Vedral, Scope: monograph. Level: general reader. *Contemporary Physics*, 52(1):84–85, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2503] Emeritus Massey Professor Marshall Stoneham. *Chirality at the Nanoscale*, edited by David B. Amabilino, Scope: monograph. Level: graduate student/research scientist. *Contemporary Physics*, 52(1):92–93, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2505] John McFarland. *The Cambridge Double Star Atlas*, by J. Mullaney and W. Tirion, Scope: handbook. Level: general reader and specialists. *Contemporary Physics*, 52(1):93–94, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2508] Dr. Peter J. Bussey. *The Many Worlds of Hugh Everett III*, by Peter Byrne, Scope: biography. Level: undergraduate physicist and philosopher and above. *Contemporary Physics*, 52(1):96–97, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2511] Professor Miguel A. F. Sanjuán. *Concepts in Thermal Physics*, 2nd ed., by Stephen J. Blundell and Katherine M. Blundell, Scope: handbook. Level: undergraduate and graduate students. *Contemporary Physics*, 52 (1):98, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2512] Assistant Professor Nikolaos E. Myridis. *Scientific Computing with Case Studies*, by Dianne P. O'Leary, Scope: textbook. Level: undergraduate and early graduate students. *Contemporary Physics*, 52(1):98–99, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Myridis:2011:MMU

[2518] Assistant Professor Nikolaos E. Myridis. *The Mathematical Mechanic: Using Physical Reasoning to Solve Problems*, by Mark Levi, Scope: handbook. Level: students, scientists, physicists, mathematicians. *Contemporary Physics*, 52(2):154, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2519] D. G. C. Jones. *The Edge of Physics: Dispatches from the Frontiers of Cosmology*, by Anil Ananthaswamy, Scope: synoptic picture of experimental modern astronomy, cosmology and particle physics. Level: general readers, a level and undergraduate physicists, specialists in other fields. *Contemporary Physics*, 52(2):155, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salama:2011:GVP

[2520] Dr. Amgad Salama. *Good Vibrations: The Physics of Music*, by Barry Parker, Scope: textbook. Level: general reader. *Contemporary Physics*,

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[2521] Professor J. Rogel-Salazar. *Interest Rates and Coupon Bonds in Quantum Finance*, by Belal E. Baaquie, Scope: monograph. Level: specialist. *Contemporary Physics*, 52(2):156, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2522] Professor S. J. Blundell. *Micromagnetism and the Microstructure of Ferromagnetic Solids*, by Helmut Kronmüller and Manfred Fähnle, Scope: monograph. Level: researcher. *Contemporary Physics*, 52(2):157, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2523] Professor Chris Linton. *Applied Mathematical Methods in Theoretical Physics*, 2nd edn., by Michio Masujima, Scope: reference. Level: undergraduates, postgraduates, engineers. *Contemporary Physics*, 52(2): 157–158, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2524] Professor Ian D. Lawrie. *Quantum Field Theory in Curved Spacetime: Quantized Fields and Gravity*, by L. Parker and D. Toms, Scope: monograph. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 52(2):158–159, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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McFarland:2011:TOD

[2526] John McFarland. *Theory of Orbit Determination*, by Andrea Milani and Giovanni F. Gronchi, Scope: reference. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 52(2):160, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2527] Mabrouk Benhamou. *P. G. de Gennes' Impact on Science: Volume I*, edited by Julien Bok, Jacques Prost and Françoise Brochard-Wyart, Scope: handbook. Level: general readership. *Contemporary Physics*, 52 (2):160–161, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2528] Dr. M. Jamil. *Scientific Computation*, by Gaston H. Gonnet and Ralf Scholl, Scope: monograph. Level: graduate level students. *Contemporary Physics*, 52(2):161–162, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2529] Dr. A. H. Harker. *Concepts of Nanochemistry*, by Ludovico Cademartiri and Geoffrey A. Ozin, Scope: monograph. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2):162, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2530] Professor Allan Solomon. *Quantum Measurement and Control*, by H. M. Wiseman and G. J. Milburn, Scope: monograph. Level: postgraduate and researcher. *Contemporary Physics*, 52(2):162–163, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2011:IRJ

[2531] Dr. R. S. Shorter. *An Introduction to Relativity*, by Jayant V. Narlikar, Scope: review. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2):163–164, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2532] Dr. R. S. Shorter. *Cremona Violins: A Physicist's Quest for Secrets of Stradivari*, by Kameshwar C. Wali, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(2):164, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2533] Dr. Natalie L. Garrett. *Introduction to Physics in Modern Medicine*, 2nd edn., by Suzanne Amador Kane, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 52(2):164–165, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2534] Dr. Giovanni Volpe. *Darwin Meets Einstein. On the Meaning of Science*, by Frans W. Saris, Scope: popular account. Level: general reader. *Contemporary Physics*, 52(2):165–166, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2535] Professor J. R. Sambles. *Symmetries in Physics: Philosophical Reflections*, edited by Katherine Brading and Elena Castellani, Scope: edited volume. Level: postgraduate. *Contemporary Physics*, 52(2):166–168, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2536] Professor Vlatko Vedral. *Quantum Processes*, Systems, and Information, by Benjamin Schumacher and Michael Westmoreland, Scope: review. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2): 168, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2011:USS

[2537] Dr. A. H. Harker. *Understanding Solid State Physics*, by Sharon Ann Holgate, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 52(2):169, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2538] Dr. D. G. C. Jones. *Semiconductor Devices for High-Speed Optoelectronics*, by Giovanni Ghione, Scope: monograph and review. Level: undergraduate, postgraduate and early career researcher. *Contemporary Physics*, 52(2):169–170, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2539] Professor David Matravers. *The Primordial Density Perturbation: Cosmology*, Inflation and the Origin of Structure, by David H. Lyth and Andrew R. Liddle, Scope: monograph. Level: postgraduate, early career researcher. *Contemporary Physics*, 52(2):170–171, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Solomon:2011:NRQ

[2540] Professor Allan Solomon. *Non-relativistic Quantum Theory: Dynamics*, Symmetry and Geometry, by Kai S. Lam, Scope: monograph. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2):171, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2541] Dr. Natalie L. Garrett. *Biochemical Applications of Nonlinear Optical Spectroscopy*, edited by Vladislav V. Yakovlev, Scope: edited book. Level: advanced undergraduate, postgraduate and researcher. *Contemporary Physics*, 52(2):171–172, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hobson:2011:LHC

[2542] Professor Peter R. Hobson. *The Large Hadron Collider: A Marvel of Technology*, edited by Lyndon Evans, Scope: edited book. Level: general reader and non-specialists. *Contemporary Physics*, 52(2):172–173, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:LPD

[2543] Assistant Professor Nikolaos E. Myridis. *Linear Partial Differential Equations and Fourier Theory*, by Marcus Pivato, Scope: monograph. Level: students in mathematics and physics, lecturers. *Contemporary Physics*, 52(2):173–174, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bridges:2011:SIT

[2544] Professor Thomas J. Bridges. *Solitons, Instantons, and Twistors*, by Maciej Dunajski, Scope: review. Level: undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 52(2):174–175, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:CMT

[2545] Dr. Peter J. Bussey. *Causality, Measurement Theory and the Differentiable Structure of Space–Time*, by R. N. Sen, Scope: monograph. Level: specialist. *Contemporary Physics*, 52(2):175, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2546] Professor J. R. Sambles. *Electromagnetic Anisotropy and Bianisotropy: A Field Guide*, by Tom G. Mackay and Akhlesh Lakhtakia, Scope: monograph. Level: postgraduate, early career researcher, specialist. *Contem-*

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[2547] Professor J. I. B. Wilson. *Spectroscopy of Low Temperature Plasma*, by V. N. Ochkin translated by S. Kittell, Scope: monograph. Level: researcher. *Contemporary Physics*, 52(2):177, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2011:FFC

[2548] Emeritus Professor Derry W. Jones. *On Fact and Fraud: Cautionary Tales from the Front Lines of Science*, by David Goodstein, Scope: twentieth century physics history and advice for scientists and administrators. Level: general reader. *Contemporary Physics*, 52(2):178–179, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2549] J. Banerji. The method of (not so) ordinary least squares: what can go wrong and how to fix them. *Contemporary Physics*, 52(3):181–195, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2550] G. W. Gibbons and C. M. Warnick. The geometry of sound rays in a wind. *Contemporary Physics*, 52(3):197–209, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2551] Javier Redondo and Andreas Ringwald. Light shining through walls. *Contemporary Physics*, 52(3):211–236, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2552] J. Rogel-Salazar. Essay review: Improving science literacy: from atoms to galaxies. *From Atoms to Galaxies* by Sadri Hassani. *Contemporary Physics*, 52(3):237, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2553] Matthew R. Foreman. Opus musicum. *Contemporary Physics*, 52(3): 239–242, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2554] S. C. Tiwari. Physical reality beyond the Standard Models: revolution in fundamental physics? *Contemporary Physics*, 52(3):243–248, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2011:TDO

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[2600] Peter J. Bussey. *Judging Edward Teller*, by Istvan Hargittai, Scope: general interest. Level: general readership. *Contemporary Physics*, 52 (4):382–383, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2608] Eric Sheldon. *Exploring Fundamental Particles*, by Lincoln Wolfenstein and João P. Silva, Scope: monograph, general interest. Level: undergraduate, advanced undergraduate, scientist. *Contemporary Physics*, 52(5): 480–481, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2610] Ken Zetie. *A Question and Answer Guide to Astronomy*, by Pierre-Yves Bely, Scope: general interest. Level: general readership, non-specialists. *Contemporary Physics*, 52(5):482, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2611] Lewis Ryder. *Relativity, Gravitation and Cosmology*, by Robert J. A. Lambourne, Scope: review. Level: undergraduate. *Contemporary Physics*, 52(5):482–483, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2612] Peter Kalmus. *Neutrino*, by Frank Close, Scope: review. Level: general readership, undergraduate, postgraduate, teacher, scientist. *Contemporary Physics*, 52(5):483–484, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2615] Peter J. Bussey. *Advanced Modern Physics: Theoretical Foundations*, by John Dirk Walecka, Scope: manual. Level: postgraduate. *Contemporary Physics*, 52(5):485–486, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2616] Peter V. E. McClintock. *Experimental and Computational Techniques in Soft Condensed Matter Physics*, edited by Jeffrey Olafsen, Scope: monograph. Level: researchers and postgraduate physicists. *Contemporary Physics*, 52(5):486, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2617] Mircea Dragoman. *Gravitation: Foundations and Frontiers*, by T. Padmanabhan, Scope: review. Level: early career researcher. *Contempo-*

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[2618] F. W. Taylor. *An Introduction to Planetary Atmospheres*, by A. Sanchez-Lavega, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 52(5):487, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2619] Stig Stenholm. *A Kinetic View of Statistical Physics*, by Pavel L. Krapivsky, Sidney Redner and Eli Ben-Naim, Scope: monograph. Level: advanced undergraduate, postgraduate, researcher. *Contemporary Physics*, 52(5):488, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2621] R. Ellis. *An Introduction to the Theory of Stellar Structure and Evolution*, 2nd edn., by Dina Prialnik, Scope: monograph. Level: early career researcher, postgraduate, teacher. *Contemporary Physics*, 52(5): 490, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2622] M. Ogilvie. *Non-Perturbative Field Theory — From Two Dimensional Conformal Field Theory to QCD in Four Dimensions*, by Yitzhak Frishman and Jacob Sonnenschein, Scope: review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 52(5):490–491, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2623] David Matravers. *Bayesian Logical Data Analysis for the Physical Sciences*, edited by P. C. Gregory, Scope: text book, handbook. Level: postgraduate. *Contemporary Physics*, 52(5):491–492, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2624] Andrew Resnick. *Nanoscopy and Multidimensional Optical Fluorescence Microscopy*, edited by Alberto Diaspro, Scope: edited book, guide, review. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 52(5):492, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2626] R. Ellis. *Stellar Populations: Planning for the Next Decade*, edited by G. Bruzual and S. Charlot. *Contemporary Physics*, 52(5):493, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2011:HPO

[2627] K. Alan Shore. *Handbook of Plastic Optics*, edited by Stefan Baumer, Weinheim. *Contemporary Physics*, 52(5):494, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2628] K. Alan Shore. *Current-Driven Phenomena in Nanoelectronics*, edited by Tamar Seideman. *Contemporary Physics*, 52(5):494–495, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2629] K. Alan Shore. *Twisted Photons: Application of Light with Orbital Angular Momentum*, edited by Juan P. Torres and Lluis Torner. *Contemporary Physics*, 52(5):495, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2630] Timothy J. Sumner. *Particle Dark Matter*, edited by Gianfranco Bertone. *Contemporary Physics*, 52(5):496, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2631] Allan I. Solomon. *Group Theory for the Standard Model of Particle Physics and Beyond*, by Ken J. Barnes. *Contemporary Physics*, 52(5):

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[2635] Yves Laberge. *An Illustrated Guide to Relativity*, by Tatsu Takeuchi. *Contemporary Physics*, 52(5):499–500, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2636] Andy Chia. *Introduction to Optical Quantum Information Processing*, by Pieter Kok and Brendon W. Lovett. *Contemporary Physics*, 52(5): 500–501, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2637] Giovanni Volpe. *The Inverted Bowl: Introductory Accounts of the Universe and its Life*, by George H. A. Cole. *Contemporary Physics*, 52 (5):501, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2639] Salvatore Esposito. *Physics Over Easy: Breakfasts with Beth and Physics*, 2nd edn., by Leonid V. Azároff. *Contemporary Physics*, 52(5): 502–503, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2644] Peter V. E. McClintock. Essay review: *Revolutions that made the Earth*, by T. Lenton and A. Watson. ISBN 978-0-19-958704-9, Scope: monograph. Level: general reader with a science education. *Contemporary Physics*, 52(6):591–593, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2650] Ken Zetie. *Michael Faraday: A Very Short Introduction*, by Frank A. J. L. James, Scope: biography, general interest. Level: general readership, non-specialists, teacher. *Contemporary Physics*, 52(6):599, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2684] Doğa Gürsoy. *The Science of Imaging: An Introduction*, 2nd edn., by Graham Saxby, Scope: general interest. Level: general readership, non-specialists, undergraduates, teachers. *Contemporary Physics*, 52(6):626, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2691] Alan Martin. *Quantum Physics for Poets*, by Leon M. Lederman and Christopher T. Hill, Scope: general interest. Level: general readership.

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[2696] Geoffrey Duxbury. *Concepts and Methods of 2D Infrared Spectroscopy*, by Peter Hamm and Martin Zanni, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 52(6):636, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2702] David Harris. *Waves and Rays in Elastic Continua*, by Michael A. Slawinski, Scope: monograph. Level: postgraduate, scientist, engineers. *Contemporary Physics*, 53(1):55, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2706] M. Jamil. *Modern Atomic and Nuclear Physics (Revised Edition): Problems and Solutions Manual*, Scope: manual. Level: graduate students and researchers. *Contemporary Physics*, 53(1):58, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2712] Matt Probert. *Thermodynamic Properties of Solids: Experiment and Modeling*, edited by Samrath L. Chaplot, Ranjan Mittal and Narayani Choudhury, Scope: review. Level: postgraduate, early career researcher,

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[2714] R. S. MacKay. *The Dark Universe: Matter, Energy, and Gravity*, edited by Mario Livio, Scope: review. Level: general readership. *Contemporary Physics*, 53(1):64–65, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2717] Vahan Senekerimyan. *Optical Sensors: Basics and Applications*, by J. Haus, Scope: general interest, monograph. Level: general readership, non-specialists, undergraduates, teachers. *Contemporary Physics*, 53(1): 67, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2720] K. Alan Shore. *Nanoimaging*, edited by Beth A. Goins and William T. Phillips, Scope: research monograph. Level: postgraduate and beyond. *Contemporary Physics*, 53(1):70–71, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2725] Hrant Ye. Seferyan. *Supercontinuum Generation in Optical Fibers*, edited by J. M. Dudley and J. R. Taylor, Scope: edited book, handbook, reference, review. Level: postgraduate, early career researcher, researcher,

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[2817] Chris Linton. *An Introduction to Metamaterials and Waves in Composites*, by B. Banerjee, Scope: textbook. Level: graduate and advanced undergraduate. *Contemporary Physics*, 53(4):363–364, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2829] Stephen H. Ashworth. *Molecular Quantum Mechanics*, 5th edn, by Peter Atkins and Ronald Friedman, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 53(4):372–373, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2830] M. Blamire. *Handbook of Magnetic Materials*, edited by K. H. J. Buschow, Scope: handbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 53(4):373–374, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2831] S. C. Tiwari. *Foundations of Perturbative QCD*, by John Collins, Scope: textbook/monograph. Level: graduate students/researchers in high energy physics. *Contemporary Physics*, 53(4):374–375, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2832] Manuel Vogel. *Relativistic Celestial Mechanics of the Solar System*, by Sergei Kopeikin, Michael Efroimsky and George Kaplan, Scope: monograph. Level: undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 53(4):375–376, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2833] Miguel A. F. Sanjuán. *Noise-Induced Phenomena in the Environmental Sciences*, by Luca Ridolfi, Paolo D'Odorico and Francesco Laio, Scope: monograph. Level: graduate students and specialists, general readers, undergraduates, postgraduates, specialists. *Contemporary Physics*, 53 (4):376, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2836] Peter J. Dobson. *Nanomedicine: Design and Applications of Magnetic Nanomaterials, Nanosensors and Nanosystems*, by Vijay K. Varadan, Linfeng Chen and Jining Xie, Scope: monograph, reference. Level: postgraduate, advanced undergraduate, early career researcher, researcher, engineers. *Contemporary Physics*, 53(4):378–379, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2843] Frank Berkshire. *Their Arrows Will Darken the Sun — The Evolution and Science of Ballistics*, by Mark Denny, Scope: general interest, guide. Level: general readership, non-specialists, undergraduate, teacher, specialist, scientist. *Contemporary Physics*, 53(4):383–384, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2845] Jörg Götte. *Analytical Mechanics for Relativity and Quantum Mechanics*, 2nd edition, by Oliver Davies Johns, Scope: monograph. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 53(4):385, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2848] R. Tucker. *Covariant Electrodynamics: A Concise Guide*, by John M. Charap, Scope: review. Level: advanced undergraduates. *Contemporary Physics*, 53(4):387, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2850] Charlie Ironside. *More is Different: Fifty Years of Condensed Matter Physics*, edited by N. Phuan Ong and Ravin N. Bhatt, Scope: review. Level: researcher. *Contemporary Physics*, 53(4):389, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2851] Frank Berkshire. *Gliding for Gold: The Physics of Winter Sports*, by Mark Denny, Scope: general interest, guide, monograph. Level: general readership, non-specialists, undergraduate, teacher, scientist. *Contemporary Physics*, 53(4):389–390, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2852] Catherine M. Wykes. *Introduction to Holography*, by Vincent Toal, Scope: monograph. Level: postgraduate, advanced undergraduate, researcher. *Contemporary Physics*, 53(4):390–391, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2853] Peter J. Dobson. *Nanosensors: Physical, Chemical, and Biological*, by Vinod Kumar Khanna, Scope: reference, review, text book. Level: general readership, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 53(4):391–392, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2854] J. Rogel-Salazar. *Quantum Mechanics: Its Early Development and the Road to Entanglement and Beyond*, by E. G. Steward, Scope: general science. Level: undergraduate. *Contemporary Physics*, 53(4):392, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2856] Peter J. Bussey. *The Quantum Vacuum: A Scientific and Philosophical Concept, from Electrodynamics to String Theory and the Geometry of the Microscopic World*, by Luciano Boi, Scope: monograph. Level: researcher. *Contemporary Physics*, 53(4):393–394, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2857] Peter J. Bussey. *Black Holes, Wormholes and Time Machines* (2nd edition), by Jim Al-Khalili, Scope: general interest. Level: general readership. *Contemporary Physics*, 53(4):394, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2858] S. J. Blundell. *Superconductivity in New Materials*, Vol. 4, volume edited by Z. Fisk and H. R. Ott, Scope: edited book. Level: researcher. *Contemporary Physics*, 53(4):394–395, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2859] Allan I. Solomon. *Dynamical Symmetry*, by Carl E. Wulfman, Scope: textbook. Level: post-graduate. *Contemporary Physics*, 53(4):395–396,

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[2860] Amgad Salama. *Exploring Monte Carlo Methods*, by William L. Dunn and J. Kenneth Shultis, Scope: review. Level: undergraduate. *Contemporary Physics*, 53(4):396, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2861] Valérie Messager, Robert Gilmore, and Christophe Letellier. Henri Poincaré and the principle of relativity. *Contemporary Physics*, 53(5): 397–415, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2862] Jeong San Kim, Gilad Gour, and Barry C. Sanders. Limitations to sharing entanglement. *Contemporary Physics*, 53(5):417–432, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2863] Peter V. E. McClintock. *What is life?*, Scope: review. Level: general reader. *Contemporary Physics*, 53(5):433–435, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2864] D. J. Miller. *You are Wrong Mr Einstein! Newton, Einstein, Heisenberg and Feynman Discussing Quantum Mechanics*, by Harald Fritzsch, Scope: general interest. Level: undergraduates and/or general readers. *Contemporary Physics*, 53(5):437–439, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2865] David Bucknall. *Solid-State Spectroscopy: An Introduction*, 2nd edn., by Hans Kuzmany, Scope: textbook. Level: postgraduates, advanced undergraduates, early career researchers, researchers, teachers, scientists and engineers. *Contemporary Physics*, 53(5):439–440, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2866] Marco Casazza. *Thermal Physics: Entropy and Free Energies*, 2nd edn., by Joon Chang Lee, Scope: review. Level: undergraduates, postgraduates, advanced undergraduates, early career researchers and teachers.

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[2867] Aniruddha Chakraborty. *The Physicist's World: The Story of Motion and the Limits to Knowledge*, by Thomas Grissom, Scope: review. Level: undergraduate. *Contemporary Physics*, 53(5):440–441, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2868] Christian G. Böhmer. *The Geometry of Physics: An Introduction*, 3rd edn., by Theodore Frankel, Scope: review. Level: undergraduates and graduate students, researchers. *Contemporary Physics*, 53(5):441–442, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2869] Thomas Peters. *Turbulence, Coherent Structures, Dynamical Systems and Symmetry*, 2nd edn., by P. Holmes, Scope: monograph. Level: researchers. *Contemporary Physics*, 53(5):442, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2870] P. J. Bussey. *Cosmic Anger: Abdus Salam — The First Muslim Nobel Scientist*, by Gordon Fraser, Scope: biography. Level: general readership. *Contemporary Physics*, 53(5):442–443, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2871] Manuel Vogel. *Oxford Dictionary of Astronomy*, by Ian Ridpath, Scope: reference. Level: general readership. *Contemporary Physics*, 53(5):443–444, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2012:SPL

[2872] Salvatore Esposito. *Statistical Physics of Liquids at Freezing and Beyond*, by S. P. Das, Scope: monograph. Level: postgraduate, researcher and specialist. *Contemporary Physics*, 53(5):444–445, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2873] Thomas Peters. *Advanced Solid State Physics*, 2nd edn., by P. Phillips, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 53(5):

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[2874] Andrew Resnick. *Continuum Mechanics and Thermodynamics: From Fundamental Concepts to Governing Equations*, by Ellad B. Tadmor, Ronald E. Miller and Ryan S. Elliott, Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, teacher, scientist, engineers. *Contemporary Physics*, 53(5):445–446, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2875] Thomas Peters. *Advanced Topics in Quantum Field Theory: A Lecture Course*, by M. Shifman, Scope: textbook. Level: graduate. *Contemporary Physics*, 53(5):446–447, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2876] Andrew Resnick. *Physics for Clinical Oncology*, edited by Amen Sibtain, Scope: handbook. Level: teacher, specialist. *Contemporary Physics*, 53 (5):447, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pierri-Galvao:2012:NFC

[2877] Monica Pierri-Galvao. *Neutrino*, by Frank Close, Scope: general interest. Level: general reader, undergraduate through professionals. *Contemporary Physics*, 53(5):447–448, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2878] Mark Fox. *Luminescence Spectroscopy of Semiconductors*, Ivan Pelant and Jan Valenta, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 53(5):448, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2879] K. Alan Shore. *Plasmonic Nanoguides and Circuits*, edited by Sergei I. Bozhevolnyi, Scope: monograph. Level: researcher, specialist. *Contemporary Physics*, 53(5):448–449, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2880] Andrew Resnick. *Viral Nanoparticles: Tools for Materials Science and Biomedicine*, by Nicole Steinmetz and Marianne Manchester, Scope: guide, monograph, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 53(5):449, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2881] D. J. Miller. *Cosmic Rays for Particle and Astroparticle Physics*, by S. Giani, C. Leroy and P. G. Rancoita, Scope: general interest, textbook. Level: pre-university, undergraduate, advanced undergraduate, teacher, scientist. *Contemporary Physics*, 53(5):450, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2882] John I. B. Wilson. *Tokamaks*, 4th edn., by John Wesson, Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 53(5):450–451, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2883] David L. Andrews. *Theory of Molecular Fluids Volume 2: Applications*, by Christopher G. Gray, Keith E. Gubbins, and Christopher G. Joslin, Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 53(5):451–452, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2884] Nikolaos E. Myridis. *Science: Image in Action (The Science and Culture Series: Astrophysics)*, edited by Bertrand Zavidovique and Giosuè Lo Bosco, Scope: conference proceedings. Level: students, researchers and academics. *Contemporary Physics*, 53(5):452–453, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2885] Manuel Vogel. *Accelerator Physics*, 3rd edn., by S. Y. Lee, Scope: textbook. Level: graduate students. *Contemporary Physics*, 53(5):453–454, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2886] Derry W. Jones. *More and Different: Notes from a Thoughtful Curmudgeon*, by Philip W. Anderson, Scope: biography, edited book, review. Level: general readership but parts need physics background. *Contemporary Physics*, 53(5):454–455, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2887] Peter Holland. *A History of Optics from Greek Antiquity to the Nineteenth Century*, by Olivier Darrigol, Scope: monograph. Level: Postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 53(5):455–456, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3002] Andrew Resnick. *Dynamical Heterogeneities in Glasses, Colloids, and Granular Media*, edited by Ludovic Berthier, Giulio Biroli, Jean-Philippe Bouchaud, Luca Cipelletti, Wim van Saarloos, Scope: general interest. Level: general readership. *Contemporary Physics*, 54(1):84–85, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3004] G. W. Gibbons. *The Birth of String Theory*, edited by Andrea Cappelli, Elena Castellani, Filippo Colomo and Paolo Di Vecchia, Scope: review. Level: general readers, postgraduates,researchers. *Contemporary Physics*, 54(1):86–87, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3013] M. Jamil. *Compound Semiconductor Radiation Detectors: Series in Sensors*, by Alan Owens, Scope: monograph. Level: graduate students, researchers. *Contemporary Physics*, 54(2):105–106, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3016] B. Ishak. *Pulsar Astronomy*, 4th edn., by A. Lyne and F. Graham-Smith, Scope: monograph. Level: Ph.D.s, post-docs and, specialists. *Contemporary Physics*, 54(2):107–108, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3018] Dawn E. Leslie. *Stars: A Very Short Introduction*, by Andrew King, Scope: guide, general interest. Level: general readers, non-specialists, pre-undergraduate, undergraduate, teacher. *Contemporary Physics*, 54 (2):109, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3025] Juan A. Añel. *Fundamentals of Geophysical Fluid Dynamics*, by James C. McWilliams, Scope: textbook. Level: undergraduate students. *Contemporary Physics*, 54(2):114–115, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3026] Enda McGlynn. *Electron Paramagnetic Resonance of Transition Ions*, Oxford Classic Texts in the Physical Sciences, by A. Abragam and B. Bleaney, Scope: textbook, monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 54(2):115–116, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3027] B. N. Murdin. *Quantum Computing from the Ground Up*, by Riley Tipton Perry, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 54(2):116–117, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3028] J. Rogel-Salazar. *Advances in Thin-Film Solar Cells*, by I. M. Dharmadasa, Scope: textbook. Level: undergraduate, postgraduate. *Contemporary Physics*, 54(2):117, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3029] S. J. Blundell. *Correlated Electrons in Quantum Matter*, by Peter Fulde, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 54(2): 117–118, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3034] Tom Lancaster. *Do We Really Understand Quantum Mechanics?*, by Franck Laloë, Scope: monograph. Level: advanced undergraduate to specialist. *Contemporary Physics*, 54(2):121–122, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3035] Marco Casazza. *The Weather Observer's Handbook*, by Stephen Burt, Scope: handbook, manual, textbook. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. engineers. *Contemporary Physics*, 54(2):122–123, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3037] Peter J. Bussey. *Relativity Made Relatively Easy*, by Andrew M. Steane, Scope: textbook. Level: postgraduate. advanced undergraduate. *Contemporary Physics*, 54(2):124, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3038] Marco Casazza. *Non-Equilibrium Thermodynamics and Statistical Mechanics: Foundations and Applications*, by Phyl Attard, Scope: monograph, reference. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 54(2): 124–125, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3039] Chih-Yueh Wang. *Death of Massive Stars (IAU S279): Supernovae and Gamma-Ray Bursts*, Proceedings of the International Astronomical Union (IAU S279), edited by P. W. A. Roming, N. Kawai and E. Pian., Scope: conference proceeding. Level: postgraduate/specialist. *Contemporary Physics*, 54(2):125–126, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3040] G. W. Gibbons. *Black Holes, Cosmology and Extra Dimensions*, by Kirill A. Bronnikov and Sergey G. Rubin, Scope: review. Level: postgraduate. *Contemporary Physics*, 54(2):126–127, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3041] Manuel Vogel. *The Theory of Probability*, by Santosh S. Venkatesh, Scope: text book. Level: advanced undergraduate. *Contemporary Physics*, 54(2):127, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3042] Manuel Vogel. *Why You Hear What You Hear*, Eric J. Heller, Scope: general interest, monograph. Level: general readership. *Contemporary Physics*, 54(2):127–128, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3043] B. Ishak. *A General Relativity Workbook*, by T. A. Moore, Scope: textbook. Level: advanced undergraduates, lecturers. *Contemporary Physics*, 54(2):128–129, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3044] B. Ishak. *Illustrating the Phaenomena: Celestial Cartography in Antiquity and the Middle Ages*, by E. Dekker, Scope: monograph. Level: specialists. *Contemporary Physics*, 54(2):129–130, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3047] P. T. Greenland. *Applied Bohmian Mechanics from Nanoscale Systems to Cosmology*, edited by X. Oriols, J. Mompart, Scope: edited book. Level: researcher. *Contemporary Physics*, 54(2):132–133, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3048] R. S. Shorter. *Niels Bohr and the Quantum Atom: The Bohr Model of Atomic Structure 1913–1925*, by Helge Kragh, Scope: biography, general interest. Level: general readership. *Contemporary Physics*, 54(2): 133, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3049] Mark Nicol. *Measuring the Universe: A Multiwavelength Perspective*, by George H. Rieke, Scope: review. Level: postgraduate, advanced undergraduate, scientist, engineers. *Contemporary Physics*, 54(2):133–134,

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[3050] Nikolaos Kourkoumelis. *Modern Diffraction Methods*, edited by E. J. Mittemeijer and U. Welzel, Scope: edited book, handbook. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 54(2):134–135, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3051] Mabrouk Benhamou. *Advances in Carbon Nanomaterials: Science and Applications*, by Nikos Tagmatarchis, Scope: edited book. Level: researchers. *Contemporary Physics*, 54(2):135–136, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3052] Robert Appleby. *Accelerator Physics: Example Problems with Solutions*, by William W. MacKay and Mario Conte, Scope: review. Level: undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 54(2):136, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3054] Peter R. Hobson. *LHC Physics*, edited by T. Binoth, C. Buttar, P. J. Clark and E. W. N. Glover, Scope: conference proceedings. Level: postgraduate, early career researcher. *Contemporary Physics*, 54(2):137–138, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3058] Peter R. T. Munro. *Principles of Diffuse Light Propagation: Light Propagation in Tissues with Applications in Biology and Medicine*, by Jorge Ripoll Lorenzo, Scope: textbook. Level: postgraduate and specialist. *Contemporary Physics*, 54(2):139–140, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3059] K. Alan Shore. *Nanofabrication Using Focused Ion and Electron Beams: Principles and Applications*, edited by Ivo Utke, Stanisislav Moshkalev and Phillip Russell, Scope: monograph. Level: researcher. *Contemporary Physics*, 54(2):140–141, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3062] Andrew Resnick. *Biomedical Nanosensors*, edited by Joseph Irudayaraj, Scope: edited book, reference, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, scientist, engineers.

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[3064] Miguel A. F. Sanjuán. *Thermal Physics: Concepts and Practice*, by Allen L. Wasserman, Scope: textbook. Level: advanced undergraduate, graduate students, lecturers. *Contemporary Physics*, 54(3):170–171, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3065] Lampros Nikolopoulos. *Quantum Control of Molecular Processes*, (Second, Revised and Enlarged Edition), by M. Shapiro and P. Brumer, Scope: review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 54(3):171–172, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3067] Chih-Yueh Wang. *From Interacting Binaries to Exoplanets (IAU S282): Essential Modelling Tools*, edited by M. T. Richards and I. Hubeny. Scope: conference proceedings. Level: postgraduate, researcher, specialist, scientist. *Contemporary Physics*, 54(3):172–173, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3068] Manuel Vogel. *Essentials of Heat Transfer: Principles, Materials, and Applications*, by Massoud Kaviany, Scope: textbook. Level: undergrad-

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[3070] Thomas Peters. *Self-Organised Criticality: Theory, Models and Characterisation*, by Gunnar Pruessner, Scope: monograph. Level: researcher. *Contemporary Physics*, 54(3):175, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3071] Tom Lancaster. *Einstein's Physics: Atoms, Quanta, and Relativity — Derived, Explained, and Appraised*, by Ta-Pei Cheng, Scope: monograph. Level: researcher. *Contemporary Physics*, 54(3):175–176, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3073] David Bailin. *Group Theory for High Energy Physicists*, by Mohammad Saleem and Muhammad Rafique, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 54(3):177–178, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3074] B. Ishak. *Neutrino Cosmology*, by J. Lesgourgues, G. Mangano, G. Miele and S. Pastor, Scope: monograph. Level: early career researcher, researcher, specialist. *Contemporary Physics*, 54(3):178–179, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3075] R. Ellis. *Binary Paths to Type Ia Supernovae Explosions*, edited by Rosanne Di Stefano, Marina Orio and Maxwell Moe, Scope: conference

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[3076] Charles Downing. *Advanced Quantum Mechanics: A Practical Guide*, by Yuli V. Nazarov and Jeroen Danon, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 54(3):180, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3079] David Bailin. *Quantum Field Theories in Two Dimensions: Collected Works of Alexei Zamolodchikov (in 2 Volumes)*, edited by Alexander Belavin, Yaroslav Pugai and Alexander Zamolodchikov, Scope: edited book. Level: researcher. *Contemporary Physics*, 54(4):211–212, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3080] Angie Ma. *Biophysics: Searching for Principles*, by William Bialek, Scope: textbook. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 54(4):212–213, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3081] B. Ishak. *The First Galaxies in the Universe*, by Abraham Loeb and Steven R. Furlanetto, Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, specialist. *Contemporary Physics*, 54(4):213–214, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3082] Manuel Vogel. *Astrometry for Astrophysics: Methods, Models, and Applications*, edited by William F. van Altena, Scope: edited book. Level: undergraduate, advanced undergraduate. *Contemporary Physics*, 54(4): 214, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3083] Mark Fox. *The Handbook on Optical Constants of Metals: In Tables and Figures & The Handbook on Optical Constants of Semiconductors: In Tables and Figures*, by Sadao Adachi, Scope: reference. Level: researcher. *Contemporary Physics*, 54(4):215, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3084] Nikolaos E. Myridis. *Artificial Human Sensors: Science and Applications*, by Peter Wide, Scope: monograph. Level: general readership, advanced undergraduate, postgraduate,researcher, teacher, engineers. *Contemporary Physics*, 54(4):215–216, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3085] Manuel Vogel. *Our Magnetic Earth: The Science of Geomagnetism*, by Ronald T. Merrill, Scope: monograph. Level: general readership. *Contemporary Physics*, 54(4):216–217, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3086] Matt Probert. *The Transactional Interpretation of Quantum Mechanics: The Reality of Possibility*, by Ruth E. Kastner, Scope: reference. Level: specialist. *Contemporary Physics*, 54(4):217–218, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3087] S. C. Tiwari. *The Angular Momentum of Light*, by D. L. Andrews and M. Babiker, Scope: reference, edited book. Level: advanced undergraduate, researcher,teacher, specialist. *Contemporary Physics*, 54(4):218–219, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3088] Derry W. Jones. *The Long Road to Stockholm, The Story of MRI: An Autobiography*, by Peter Mansfield, Scope: autobiography. Level: scientist, general reader. *Contemporary Physics*, 54(4):219–220, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3089] Peter J. Bussey. *Quantum Concepts in Physics: An Alternative Approach to the Understanding of Quantum Mechanics*, by Malcolm Longair, Scope: textbook. Level: teacher, specialist. *Contemporary Physics*, 54(4):220–221, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3090] Thomas Peters. *Nonequilibrium Many-Body Theory of Quantum Systems: A Modern Introduction*, by G. Stefanucci and R. van Leeuwen, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 54(4): 221, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3091] Peter J. Bussey. *The Oxford Handbook of Philosophy of Physics*, edited by R. Batterman, Scope: review, edited book. Level: postgraduate, researcher, specialist, scientist. *Contemporary Physics*, 54(4):221–223, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3092] Joseph Eberly. *Review of Modern Physics*, by Paul A. Tipler and Ralph A. Llewellyn, Scope: reference, textbook. Level: undergraduate, advanced undergraduate, teacher. *Contemporary Physics*, 54(4):223–224, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3093] Robert D. Joseph. *Isaac Newton's Scientific Method: Turning Data into Evidence about Gravity and Cosmology*, by William L. Harper. Scope: review. Level: specialist. *Contemporary Physics*, 54(4):224–225, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3094] John Quenby. *Relativistic Jets from Active Galactic Nuclei*, edited by M. Boetttcher, D. E. Harris, and H. Krawczynski, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist. *Contemporary Physics*, 54(4):225–226, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3095] Marco Casazza. *Synergetic Agents*, by Hermann Haken and Paul Levi, Scope: reference, monograph, manual, textbook. Level: non-specialists, postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 54(4):226–227, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3096] Amgad Salama. *Continuum Mechanics in the Earth Sciences*, by William I. Newman, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 54(4):227, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3097] Mabrouk Benhamou. *Theory of Intermolecular Forces*, by Anthony Stone, Scope: textbook. Level: postgraduate, researcher. *Contemporary Physics*, 54(4):227–228, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3098] D. C. Barber. *Correction Techniques in Emission Tomography*, edited by Mohammad Dawood, Xiaoyi Jiang and Klaus Schäfers, Scope: review. Level: postgraduate, early career researcher, specialist. *Contemporary Physics*, 54(4):228–229, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3099] M. Jamil. *Fusion, the Energy of the Universe*, by Garry McCracken and Peter Stott, Scope: monograph. Level: postgraduate, advanced undergraduate,early career researcher, researcher. *Contemporary Physics*, 54 (4):229–230, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3100] David R. Matravers. *The Ballet of the Planets: A Mathematician's Musings on the Elegance of Planetary Motion*, by Donald C. Benson, Scope: general interest. Level: pre-university, undergraduate. *Contemporary Physics*, 54(4):230–231, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3101] K. C. Yung, W. M. Wu, M. P. Pierpoint, and F. V. Kusmartsev. Introduction to graphene electronics — a new era of digital transistors and devices. *Contemporary Physics*, 54(5):233–251, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3102] Norman Dombey. Essay review: Oppenheimer, the bomb and beyond, Scope: biography. Level: general readership [Review of *Inside the Centre: The Life of J. Robert Oppenheimer*, by Ray Monk, London, Jonathon Cape, 2012, 818 pp., £30.00 (hardback), ISBN 978-0-224-06262-6]. *Contemporary Physics*, 54(5):252–253, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3103] Philip Phillips. *The Physics of Dilute Magnetic Alloys*, by Jun Kondo, translated by Shigeru Koikegami, Kosuke Odagiri, Kunihiko Yamaji and Takashi Yanagisawa, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 54(5):254, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2013:BPE

[3104] Peter J. Dobson. *Biomimetics in Photonics*, edited by Olaf Karthaus, Scope: review. Level: general readership, non-specialists, undergraduate, postgraduate, scientist. *Contemporary Physics*, 54(5):254–255, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2013:PGO

[3105] Mark Fox. *A Practical Guide to Optical Metrology for Thin Films*, by Michael Quinten, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 54(5):255, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2013:TSS

[3106] Ken Pounds. *Time, Space, Stars and Man: The Story of the Big Bang*, by Michael M. Woolfson. Scope: review. Level: general readership. *Contemporary Physics*, 54(5):255–256, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Berkshire:2013:IPW

[3107] Frank Berkshire. *Introduction to the Physics of Waves*, by Tim Freegarde, Scope: textbook. Level: general readership, undergraduate, advanced undergraduate, postgraduate, early career researcher, teacher. *Contemporary Physics*, 54(5):256–257, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3108] S. W. Lovesey. *A Modern Course in the Quantum Theory of Solids*, edited by Fuxiang Han, Scope: review. Level: postgraduate. *Contemporary Physics*, 54(5):257, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3109] J. Rogel-Salazar. *Introduction to Mathematical Physics: Methods and Concepts*, 2nd edn., by Chun Wa Wong, Scope: review. Level: undergraduate. *Contemporary Physics*, 54(5):257–258, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3110] Manuel Vogel. *Modern Physics: An Introductory Text*, by Jeremy I. Pfeffer and Shlomo Nir, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 54(5):258–259, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anel:2013:TPI

[3111] Juan A. Añel. *Turing: Pioneer of the Information Age*, by B. Jack Copeland, Scope: general interest. Level: general reader. *Contemporary Physics*, 54(5):259, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3112] Robert Appleby. *Measurement Uncertainty and Probability*, by Robin Willink, Scope: textbook. Level: specialist. *Contemporary Physics*, 54 (5):259–260, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2013:AAE

[3113] B. Ishak and J. McFarland. *Astrophysics from Antarctica*, edited by Michael G. Burton, Xiangqun Cui and Nicholas F. H. Tothill, Scope: wide-ranging review. Level: postgraduates and specialists. *Contemporary Physics*, 54(5):260–261, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3114] S. W. Lovesey. *Exploring Quantum Mechanics: A Collection of 700+ Solved Problems for Students, Lecturers, and Researchers*, by Victor Galitski, Boris Karnakov, Vladimir Kogan, and Victor Galitski, Jr., Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 54 (5):261, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2013:EME

[3115] Michael Belsley. *Electricity and Magnetism*, by Edward M. Purcell and David J. Morin, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 54(5):261–262, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bucknall:2013:EOP

[3116] David Bucknall. *Electronic and Optical Properties of Conjugated Polymers*, 2nd edn., International Series of Monographs on Physics 159, by William Barford, Scope: review. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 54(5): 262–263, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Greenland:2013:TPR

[3117] P. T. Greenland. *Terahertz Physics*, by R. A. Lewis, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 54(5):263, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2013:CME

[3118] A. H. Harker. *Computational Methods for Electromagnetic Phenomena: Electrostatics in Solvation, Scattering and Electron Transport*, by Cai Wei, Scope: monograph. Level: postgraduate, researcher. *Contemporary Physics*, 54(5):263–264, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2013:EMP

[3119] Andrew Resnick. *Encyclopaedia of Medical Physics* (2 Volume Set), edited by Slavik Tabakov, Franco Milano, Sven-Erik Strand, Cornelius Lewis and Perry Sprawls, Scope: reference, encyclopedia. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 54(5): 264–265, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2013:RVS

[3120] Derry W. Jones. *Radioactivity: A Very Short Introduction*, by Claudio Tuniz, Scope: general interest. Level: general reader, preferably with physical science background. *Contemporary Physics*, 54(5):265–266, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Leggett:2013:RTC

[3121] A. J. Leggett. *Revolutions in Twentieth-Century Physics*, by David J. Griffiths, Scope: general interest. Level: general readership, non-specialists, pre-university. *Contemporary Physics*, 54(5):266, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Andrews:2013:LMI

[3122] David L. Andrews. *Light–Matter Interaction: Physics and Engineering at the Nanoscale*, by John Weiner and Frederico Nunes, Scope: textbook. Level: undergraduate, advanced undergraduate, scientist, engineers. *Contemporary Physics*, 54(5):267–268, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Coffey:2013:PIS

[3123] William T. Coffey. *Path Integrals for Stochastic Processes: An Introduction*, by Horacio S. Wio, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 54(5):268, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2013:FTC

[3124] S. J. Blundell. *Field Theories of Condensed Matter Physics*, 2nd edn., by Eduardo Fradkin, Scope: monograph. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5):268–269, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3125] H. Osborn. *An Introduction to Non-Perturbative Foundations of Quantum Field Theory*, by Franco Strocchi, Scope: monograph. Level: scientist. *Contemporary Physics*, 54(5):269, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Holland:2013:GTG

[3126] Peter Holland. *Gauge Theories of Gravitation: A Reader with Commentaries*, edited by Milutin Blagojević and Friedrich W. Hehl, Scope: edited book, reference, review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5):269–270, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3127] Matt Probert. *Atomistic Computer Simulations: A Practical Guide*, by V. Brázdová and D. R. Bowler, Scope: reference. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5): 270–271, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3128] Dawn E. Leslie. *The Infinity Puzzle: The Personalities, Politics and Extraordinary Science Behind the Higgs Boson*, by Frank Close. Scope: general interest. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 54(5):271, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3129] Manuel Vogel. *Planetary Systems and the Origins of Life*, Cambridge Astrobiology (No. 3), edited by Ralph Pudritz, Paul Higgs and Jonathon Stone, Scope: edited book. Level: general readership. *Contemporary Physics*, 54(5):271–272, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McCall:2013:TOC

[3130] Martin McCall. Transformation optics and cloaking. *Contemporary Physics*, 54(6):273–286, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2013:CCC

[3131] Derry W. Jones. *Crystallographic centenary celebration: the emergence of X-ray analysis*, Scope: general interest, monograph. Level: general reader, specialist. *Contemporary Physics*, 54(6):287–290, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rowlands:2013:ISP

[3132] George Rowlands. *An Introduction to Stochastic Processes and Nonequilibrium Statistical Physics*, revised edition, Series on Advances in Statistical Mechanics: Volume 19, edited by Horacio S. Wio, Roberto R. Deza and Juan M. López, Scope: review. Level: scientist. *Contemporary Physics*, 54(6):291, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3137] Francisco Caruso. *On Space and Time*, Scope: edited book. Level: general readership, non-specialists, pre-university, undergraduate, advanced

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[3140] Peter R. T. Munro. *Computational Photonics: An Introduction With MATLAB*, by Marek S. Wartak, Scope: textbook. Level: undergraduate, postgraduate, practising scientists and engineers. *Contemporary Physics*, 54(6):297, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3143] Prashant Khare. *Ten Chapters in Turbulence*, edited by Peter A. Davidson, Yukio Kaneda and Katepalli R. Sreenivasan, Scope: edited book, reference, review. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 54(6):299–300, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3144] Charles A. Downing. *Topics in Modern Physics: Theoretical Foundations*, by John Dirk Walecka, Scope: textbook. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 54(6):300, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3145] Nikolaos E. Myridis. *Handbook of 3D Machine Vision: Optical Metrology and Imaging*, Series in Optics and Optoelectronics, edited by Song Zhang, Scope: edited book. Level: postgraduate, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 54(6):300–301, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3147] Edmund Tarleton. *Dislocations, Mesoscale Simulations and Plastic Flow*, Oxford Series on Materials Modelling 5, by Ladislas Kubin, Scope: textbook. Level: postgraduate, researcher. *Contemporary Physics*, 54(6): 302–303, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3148] K. Alan Shore. *Electromechanics and MEMS*, by Thomas B. Jones and Nenad G. Nenadic, Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 54(6):303, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3149] Richard Shorter. *TESLA: Inventor of the Electrical Age*, by W. Bernard Carlson, Scope: biography. Level: general readership. *Contemporary Physics*, 54(6):303–304, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3151] Richard Shorter. *Night Vision: Exploring the Infrared Universe*, by Michael Rowan-Robinson, Scope: general interest, textbook. Level: general readership, advanced undergraduate, teacher. *Contemporary Physics*, 54(6):304–305, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3156] Erling Riis. *Optical Magnetometry*, Scope: reference. Level: postgraduate. *Contemporary Physics*, 54(6):308–309, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3164] K. P. Zetie. *Time Travel and Warp Drives: A Scientific Guide to Shortcuts through Time and Space*, by Allen Everett and Thomas Roman, Scope: general interest. Level: undergraduate, pre-university, teacher, scientist. *Contemporary Physics*, 55(1):47–48, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3165] Mark Fox. *Generalised Optomechanics and its Applications: Quantum Optical Properties of Generalised Optomechanical System*, by Jin-Jin Li and Ka-Di Zhu, Scope: monograph. Level: researcher. *Contemporary Physics*, 55(1):48, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3166] Thomas Peters. *Modern Electrodynamics*, by Andrew Zangwill, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 55(1):49, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3167] Peter J. Bussey. *A Physicist's View of Matter and Mind*, by Chandre Dharma-wardana, Scope: general interest. Level: scientist. *Contemporary Physics*, 55(1):49–50, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3168] Richard Ellis. *The Cosmic Century: A History of Astrophysics and Cosmology*, by Malcolm S. Longair, Scope: monograph, reference, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher. *Contemporary Physics*, 55(1):50–51, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3169] Tom Lancaster. *Polarons*, by David Emin, Scope: monograph. Level: postgraduate, researcher. *Contemporary Physics*, 55(1):51, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3170] Manuel Vogel. *Physical Mathematics*, by Kevin Cahill, Scope: reference, text book. Level: advanced undergraduate, researcher. *Contemporary Physics*, 55(1):51–52, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3171] Peter J. Bussey. *100 Years of Subatomic Physics*, edited by Ernest M. Henley and Stephen D. Ellis, Scope: edited book. Level: specialist. *Contemporary Physics*, 55(1):52–53, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3172] Andrew Resnick. *Mathematical Topics in Fluid Mechanics — Volumes 1 & 2*, by Pierre-Louis Lions, Scope: monograph, review. Level: postgraduate, researcher, specialist, scientist. *Contemporary Physics*, 55(1): 53, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3177] A. H. Harker. *Understanding the Nanotechnology Revolution*, by Edward L. Wolf and Manasa Medikonda, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(2):122, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3178] S. Virmani. *An Introduction to Statistical Mechanics and Thermodynamics*, by Robert H. Swendsen, Scope: text book. Level: non-specialists. undergraduate. postgraduate. advanced undergraduate. teacher. scientist. engineers. *Contemporary Physics*, 55(2):122–123, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3179] Peter J. Dobson. *Optochemical Nanosensors*, edited by Andrea Cusano, Francisco J. Arregui, Michele Giordano and Antonello Cutolo, Scope: monograph, reference. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 55(2): 123–124, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3180] Michael Belsley. *Introduction to Quantum Information Science*, by Vlatko Vedral, Scope: text book. Level: advanced undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 55(2):124–125, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3181] A. H. Harker. *Computational Methods for Physics*, by Joel Franklin, Scope: text book. Level: undergraduate. *Contemporary Physics*, 55(2): 125, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3182] Peter V. E. McClintock. *Space, Time, & Stuff*, by Frank Arntzenius, Scope: monograph. Level: postgraduate students, researchers. *Contemporary Physics*, 55(2):126, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3183] J. Rogel-Salazar. *Modern Statistical Methods for Astronomy With R Applications*, by Eric D. Feigelson and G. Jogesh Babu, Scope: reference. Level: advanced undergraduate, graduate, specialised. *Contemporary Physics*, 55(2):126–127, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Huan:2014:SCE

[3184] Chao Huan. *Spin Current*, edited by Sadamichi Maekawa, Sergio O. Valenzuela, Eiji Saitoh, and Takashi Kimura, Scope: monograph, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 55(2): 127–128, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3185] John M. Stewart. *Introduction to* $3+1$ *Numerical Relativity*, by Miguel Alcubierre, Scope: review. Level: advanced undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 55(2):128–129, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3186] Peter V. E. McClintock. *Simple Brownian Diffusion*, by Daniel Thomas Gillespie and Effrosyni Seitaridou, Scope: textbook. Level: senior undergraduate students, postgraduates, researchers. *Contemporary Physics*, 55(2):129, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3187] Peter V. E. McClintock. *Novel Superfluids: Vol. 1*, edited by K. H. Bennemann and J. B. Ketterson, Scope: monograph. Level: postgraduate students, researchers. *Contemporary Physics*, 55(2):130–132, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3188] J. Rogel-Salazar. *Statistical Data Analysis for the Physical Sciences*, by Adrian Bevan, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 55(2):132–133, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3189] Jock McOrist. *Geometric and Topological Methods for Quantum Field Theory*, edited by Alexander Cardona, Iván Contreras and Andrés F. Reyes-Lega, Scope: conference proceedings, review. Level: postgraduate student, early career researcher, researcher. *Contemporary Physics*, 55 (2):133, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2014:FQG

[3190] B. Ishak. *Foundations of Quantum Gravity*, by James Lindesay, Scope: textbook. level: specialist. *Contemporary Physics*, 55(2):134, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3191] John M. Stewart. *Advanced General Relativity: Gravity Waves, Spinning Particles and Black Holes*, by Claude Barrabès and Peter A. Hogan, Scope: textbook, review. Level: advanced undergraduate, postgraduate,

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[3192] Salvatore Esposito. *Herschel 400 Observing Guide*, by Stephen James O'Meara, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(2):135, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3193] C. A. Downing. *Foundation Mathematics for the Physical Sciences*, by K. F. Riley and M. P. Hobson, Scope: textbook, solution manual. Level: first year undergraduate. *Contemporary Physics*, 55(2):136, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2014:NEC

[3194] Peter J. Dobson. *Nanotechnology for the Energy Challenge*, edited by Javier Garcia-Martinez, Scope: monograph, reference, review. Level: undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 55(2):136–137, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3195] Peter J. Bussey. *Science, Religion and the Search for Extraterrestrial Intelligence*, by David Wilkinson, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(2):137–138, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3196] D. W. Jones. *Uncorked: The Science of Champagne*, Revised ed. by Gerard Liger-Belair, Scope: general interest, monograph. Level: postgraduate, advanced undergraduate, researcher, scientist. *Contemporary Physics*, 55(2):138–139, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3197] Eric Sheldon. *Behind the Scenes of the Universe: From the Higgs to Dark Matter*, by Gianfranco Bertone. Scope: popular survey, general interest. Level: general readership, undergraduate, teacher, scientist. *Contemporary Physics*, 55(2):139–140, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sambles:2014:TLE

[3198] J. R. Sambles. *Transmission Lines: Equivalent Circuits, Electromagnetic Theory and Photons*, by Richard Collier, Scope: review. Level: undergraduates. *Contemporary Physics*, 55(2):140–141, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3199] Rob Appleby. *Oscillations and Waves: An Introduction*, by Richard Fitzpatrick, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 55(2):141, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3200] S. W. Lovesey. *Electricity and Magnetism, Volume 1: Third Edition, Electricity and Magnetism, Volume 2*: Third Edition, by B. I. Bleaney and B. Bleaney, Scope: textbook, level: undergraduate. *Contemporary Physics*, 55(2):141–142, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Barber:2014:WPM

[3201] D. C. Barber. *Webb's Physics of Medical Imaging*, (Second Edition), edited by M. Flower, Scope: textbook, review. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 55(2): 142–143, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3202] S. W. Lovesey. *Complex Dynamics of Glass-forming Liquids: A Mode-coupling Theory*, by Wolfgang Götze, Scope: review. Level: general readership. *Contemporary Physics*, 55(2):143–144, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3203] Mario Bertolotti. *Cosmic Masers — From OH to Ho (IAU S287)*, edited by Roy S. Booth, Wouter H. T. Vlemmings and Elizabeth M. L. Humphreys. Scope: edited book. Level: specialist. *Contemporary Physics*, 55(2):144–145, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3204] Peter R. Hobson. *Imaging Gaseous Detectors and their Applications*, by Eugenio Nappi and Vladimir Peskov, Scope: monograph. Level: post-

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[3205] Peter Holland. *Physical Foundations of Continuum Mechanics*, by A. Ian Murdoch, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 55(2):145–146, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3206] D. J. Miller. *Nuclear Physics: Exploring the Heart of Matter*, by National Research Council, Scope: report, review. Level: administrators of nuclear physics research programmes, politicians, interested non-experts, physics students looking for an overview, postgraduate, researcher. *Contemporary Physics*, 55(2):146–147, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3207] Geoffrey Duxbury. *Laser-Based Measurements for Time and Frequency Domain Applications: A Handbook*, by Pasquale Maddaloni, Marco Bellini, and Paolo De Natale, Scope: monograph, reference, review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 55(2):147–148, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3208] David J. Miller. *Handbook of Accelerator Physics and Engineering*, 2nd edition, by Alexander Wu Chao, Karl Hubert Mes, Maury Tigner and Frank Zimmermann, Scope: handbook. Level: postgraduate, researcher. *Contemporary Physics*, 55(2):148, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3209] S. J. Blundell Professor. *Frustrated Spin Systems*, (2nd ed.), edited by H. T. Diep, Scope: monograph. Level: researcher. *Contemporary Physics*, 55(2):148–149, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3210] Lachlan Marnham. *Quantum Information Theory and the Foundations of Quantum Mechanics*, by Christopher G. Timpson, Scope: review,

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[3211] Juan A. Añel. *Mesoscale-Convective Processes in the Atmosphere*, by Robert J. Trapp, Scope: textbook. Level: undergraduate, postgraduate, advanced undergraduate, researcher, teacher. *Contemporary Physics*, 55 (2):149–150, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3212] Charles Downing. *Essential Mathematical Methods for the Physical Sciences & Student Solution Manual for Essential Mathematical Methods for the Physical Sciences*, by K. F. Riley and M. P. Hobson, Scope: textbook, solution manual. Level: undergraduate. *Contemporary Physics*, 55 (2):150–151, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Professor:2014:GMB

[3213] N. Riley Professor. *Granular Media; Between Fluid and Solid*, by Bruno Andreotti, Yoël Forterre and Olivier Pouliquen, Scope: monograph, reference. Level: postgraduate, researcher and specialist. *Contemporary Physics*, 55(2):151–152, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3214] S. J. Blundell Professor. *Statistical Mechanics of Magnetic Excitations*, From Spin Waves to Stripes and Checkerboards, by Enrico Rastelli, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 55(2): 152–153, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3268] B. Ishak. *Dark Matter and Cosmic Web Story*, by Jaan Einasto, Scope: monograph. Level: general readership, specialists. *Contemporary Physics*, 55(4):347, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3391] K. Alan Shore. *Nonlinear optics and photonics*, Scope: monograph, textbook. Level: postgraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 56(4):477–479, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3422] B. Ishak. *Stellar Evolution Physics — Volume 1. Physical Processes in Stellar Interiors*, Scope: monograph. Level: advanced undergraduates and specialists. *Contemporary Physics*, 57(1):90–92, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3424] Enda McGlynn. *Crystal Symmetry, Lattice Vibrations, and Optical Spectroscopy of Solids: A Group Theoretical Approach*, Scope: textbook. Level: postgraduate, early career researcher, researcher, specialist, scientist & engineers. *Contemporary Physics*, 57(1):96–99, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3427] B. Ishak. *Deep-sky Companions: The Messier Objects*, (2nd Edition), Scope: reference. Level: general readership. *Contemporary Physics*, 57 (1):110–112, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3428] Peter W. Milonni. *Lasers: the first 50 years*, Scope: review, general interest. Level: general readership, teacher, undergraduate. *Contemporary Physics*, 57(1):113–116, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3429] Prashant Khare. *Incompressible Flow*, 4th Edition, by Ronald L. Panton, Scope: textbook. Level: advanced undergraduate, early stage postgraduate. *Contemporary Physics*, 57(1):117–118, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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graph, reference. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 57(1):118–120, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3431] Richard Keesing. *Discrete or Continuous? The Quest for Fundamental Length in Physics*, by Amit Hagar, Scope: monograph. Level: advanced undergraduate, postgraduate. early career researcher, researcher. *Contemporary Physics*, 57(1):120–121, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3432] Nikolaos E. Myridis. *4D visualization of matter: recent collected works of Ahmed H. Zewail, Nobel Laureate*, by Nikolaos E. Myridis, Scope: anthology (article collection). Level: academics, researchers, postgraduates and specialists in: physical chemistry, biochemistry, chemical biology, biophysics, bioengineering, imaging, structural biology, cancer research. *Contemporary Physics*, 57(1):122, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3433] K. Alan Shore. *Towards a new dimension: Exploring the Nanoscale*, by Anne Marcovich and Terry Shinn, Scope: monograph. Level: specialist. *Contemporary Physics*, 57(1):122–124, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3434] K. Alan Shore. *Nanoscale microwave engineering: Optical control of nanodevices*, by Charlotte Tripon-Canseliet and Jean Chazelas, Scope: monograph. Level: specialist. *Contemporary Physics*, 57(1):124–125, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3435] B. Ishak. *Astrophysics Processes: The Physics of Astronomical Phenomena*, by Hale Bradt, Scope: textbook. Level: postgraduate, advanced undergraduate, teacher. *Contemporary Physics*, 57(1):125–126, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3436] B. Ishak. *An Introduction to Galaxies and Cosmology*, (2nd Edition), edited by Mark H. Jones, Robert J. A. Lambourne, and Stephen Serjeant,

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[3437] B. Ishak. *Gravitation and Spacetime*, (3rd Edition), by Hans C. Ohanian and Remo Ruffini, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 57(1):128, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3438] B. Ishak. *Astrophysics Through Computation: With Mathematica$^{(R)}$ Support*, by Brian Koberlein and David Meisel, Scope: textbook. Level: advanced undergraduates, graduate students. *Contemporary Physics*, 57 (1):129, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3439] K. Alan Shore. *Quantum Transport Calculations for Nanosystems*, by Kenji Hirose and Nobuhiko Kobayashi, Scope: monograph. Level: specialist, researcher, early career researcher. *Contemporary Physics*, 57(1): 129–130, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3440] K. Alan Shore. *Biomedical Photonic Handbook*, (3 Volumes), edited by Tuan Vo-Dinh, Scope: handbook. Level: specialist, engineers, early career researchers. *Contemporary Physics*, 57(1):130–131, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3441] K. Alan Shore. *History of Modern Optics and Optoelectronics Development in China*, edited by Fuxi Gan and Shouyun Tian, Scope: monograph. Level: general readership, engineers, early career researchers. *Contemporary Physics*, 57(1):131–132, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3442] Frank Close. *Particle Accelerators: From Big Bang Physics to Hadron Therapy*, by Ugo Amaldi, Scope: monograph, review, postgraduate. Level: general reader, undergraduate, postgraduate, specialist. *Contemporary Physics*, 57(1):132–134, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3443] Manuel Vogel. *The Formation of the Solar System: Theories Old and New*, (2nd Edition), by Michael Woolfson, Scope: monograph, level: general readership. *Contemporary Physics*, 57(1):134–135, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3444] Lynn E. Eberly and Joseph H. Eberly. *Bayesian Probability Theory: Applications in the Physical Science*, by W. von der Linden, V. Dose and U. von Toussaint. Scope: review. Level: general readership, non-specialists. *Contemporary Physics*, 57(1):135–136, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2016:SIS

[3445] Nigel John Mason. *The Science of Interstellar*, Scope: general interest. Level: general reader, non specialist. *Contemporary Physics*, 57(1): 136–137, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3446] Nigel John Mason. *Electrons in Molecules: From Basic Principles to Molecular Electronics*, by Jean Pierre Launay and Michel Verdaguer, Scope: reference, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 57(1): 137–138, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3447] G. J. Milburn. *Quantum Measurement Theory and its Applications*, by Kurt Jacobs, Scope: textbook. Level: postgraduate, early career researcher. *Contemporary Physics*, 57(1):138, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3448] Salvatore Esposito. *A Chorus of Bells and Other Scientific Inquiries*, by Jeremy Bernstein, Scope: article collection. Level: postgraduate, teacher, scientist. *Contemporary Physics*, 57(1):139, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3451] A. H. Harker. *Semiconductors: Bonds and Bands*, by David K. Ferry, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 57(1): 141, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3452] A. H. Harker. *Phase transitions in materials*, Scope: textbook. Level: advanced undergraduate; postgraduate, early stage researcher. *Contemporary Physics*, 57(1):141–142, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3453] Robert D. Joseph. *The Universal Force: Gravity — Creator of Worlds*, Scope: monograph. Level: general reader. *Contemporary Physics*, 57 (1):142, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3454] Peter V. E. McClintock. *Mid-Ocean Ridges*, Scope: monograph. Level: undergraduates, graduate students, interdisciplinary researchers. *Contemporary Physics*, 57(1):143, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2016:UCU

[3455] B. Ishak. *Unseen Cosmos: The Universe in Radio*, Scope: reference, general interest. Level: general readership. *Contemporary Physics*, 57 (1):143–144, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2016:LSH

[3456] B. Ishak. *Living with the Stars: how the human body is connected to the life cycles of the Earth, the Planets, and the Stars*, Scope: general interest. Level: general readership. *Contemporary Physics*, 57(1):144, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2016:EVB

[3457] Peter V. E. McClintock. *Essentials of in vivo Biomedical Imaging*, edited by Simon R. Cherry, Ramsey D. Badawi and Jinyi Qi, Scope: edited book. Level: postgraduates, research scientists. *Contemporary Physics*, 57(1):144–145, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3458] Michael Belsley. *Experiments and Demonstrations in Physics Bar-llan Physics Laboratory* (second edition), Scope: guide or manual. Level: undergraduate. *Contemporary Physics*, 57(1):145–146, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3459] B. Ishak. *Why we need nuclear power: the environmental case*, Michael H. Fox, New York, NY, Oxford University Press, 2014, 320 pp., £22.99 (Hardback), ISBN 978-0-199-34457-4. Scope: general interest. Level: general readership. *Contemporary Physics*, 57(1):146–147, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3460] Peter V. E. McClintock. *Superfluid States of Matter*, by Boris Egor Nikolay Svistunov, Egor Nikolay Babaev and Nikolay Prokof'ev, Scope: monograph. Level: postgraduates, research scientists. *Contemporary Physics*, 57(1):147, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3461] Eric Sheldon. *Relativity: The Special and the General Theory*, 100th Anniversary Edition, by Albert Einstein, Scope: general interest, edited book. Level: general readership, non-specialists, pre-university, undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 57(1):147–149, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3462] Peter J. Bussey. *The beauty of physics: patterns, principles and perspectives*, Scope: general interest. Level: general reader. *Contemporary Physics*, 57(1):149, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3463] Hai-Jun Zhou. The rock–paper–scissors game. *Contemporary Physics*, 57(2):151–163, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3464] Clare Burrage and Edmund J. Copeland. Using atom interferometry to detect dark energy. *Contemporary Physics*, 57(2):164–176, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3465] Chris Quigg. Particle physics after the Higgs boson discovery: opportunities for the Large Hadron Collider. *Contemporary Physics*, 57(2): 177–187, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3466] Hiroya Nakao. Phase reduction approach to synchronisation of nonlinear oscillators. *Contemporary Physics*, 57(2):188–214, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3467] Stefan Schippers, A. L. David Kilcoyne, Ronald A. Phaneuf, and Alfred Müller. Photoionisation of ions with synchrotron radiation: from ions in space to atoms in cages. *Contemporary Physics*, 57(2):215–229, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anel:2016:SHF

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[4037] B. Ishak. Book review: *Finding our place in the solar system: the scientific story of the Copernican revolution*, by T. Timberlake and P. Wallace, Cambridge, Cambridge University Press, 2019, 378 pp., £29.99 (hardback), ISBN 978-1-107-18229-5. *Contemporary Physics*, 60(4):334, 2019. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Howard:2019:BRMb

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Gururajan:2020:BRS

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[4054] Andrew Resnick. Book review: *Airless bodies of the inner solar system*, by J. A. Grier, A. S. Rivkin, Cambridge, Elsevier, 2018, 283 pp., £76.95 (Paperback), ISBN 978-0-12-809279-8. Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, teacher, scientist. *Contemporary Physics*, 61(1):52–53, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2020:BRP

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[4056] Stephen J. Blundell. Book review: *Group theory for physicists*, 2nd edition, by Z. Ma, Singapore, World Scientific, 2019, 655 pp., £115.00 (hardback), ISBN: 978-981-327-738-0. Scope: monograph. Level: researcher. *Contemporary Physics*, 61(1):53–54, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anel:2020:BRS

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Vogel:2020:BRMa

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Taylor:2020:BRM

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Ali:2020:BRL

[4060] Muhammad Mahmood Ali. Book review: *Lightwave communications*, by G. C. Papen and R. Blahut, Cambridge, Cambridge University Press, 2019, 970 pp., £79.99 (hardback), ISBN 978-1-108-42756-2. Scope: review, monograph, handbook, guide, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(1):55–56, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Clayton:2020:BRT

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Ashworth:2020:BRIa

[4062] Stephen H. Ashworth. Book review: *Introduction to electricity and magnetism*, by J. D. Walecka, Singapore, World Scientific, 2018, 272 pp., £75 (hardback), ISBN: 978-981-327-206-4, Scope: review. Level: undergraduate. Specialist. *Contemporary Physics*, 61(1):58–59, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2020:BRL

[4063] K. Alan Shore. Book review: *Lectures on astrophysics*, by S. Weinberg, Cambridge, Cambridge University Press, 2020, 226 pp., £34.99 (hardback), ISBN 978-1-108-41507-1. Scope: textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(1): 59–60, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2020:BRG

[4064] K. Alan Shore. Book review: *Gravity! The quest for gravitational waves*, by Pierre Binêtruy, Oxford, Oxford University Press, 2018, 245 pp., 19.99 (hardback), ISBN: 978-0-19-879651-0. Scope: monograph. Level: general readership. *Contemporary Physics*, 61(1):60–61, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2020:BRC

[4065] K. Alan Shore. Book review: *Cosmic discovery: the search, scope and heritage of astronomy*, by M. Harwit, Cambridge, Cambridge University Press, 2019, 348 pp., £34.99 (paperback), ISBN: 978-1-108-72204-9. Scope: monograph. Level: general readership. *Contemporary Physics*, 61 (1):61–62, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4066] Stefano Scali. Book review: *Introduction to quantum mechanics*, 3rd edition, by D.J. Griffiths and D.F. Schroeter, Cambridge, Cambridge

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Howard:2020:BRP

[4068] Eric Howard. Book review: *Physics on Ultracold quantum gases*, by Y. Han, W. Yi and W. Zhang, Singapore, World Scientific, 2018, 288, $98.00 (Hardback), ISBN: 978-981-327-075-6. Scope: review. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 61(1):63–64, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2020:BRS

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[4070] Stefano Scali. Book review: *A guide to mathematical methods for physicists — advanced topics and applications*, by M. Petrini, G. Pradisi, A. Zaffaroni, London, World Scientific, 2018, 308 pp., $48.00 (paperback), ISBN 978-1-78634-704-6. Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 61(1):64–65, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2020:BRV

[4071] Miguel A. F. Sanjuán. Book review: *Vibrations*, 3rd edition, by Balakumar Balachandran and Edward B. Magrab, Cambridge, UK, Cambridge University Press, 2018, 723 pp., £87.99 (hardback), ISBN: 978-1-108-42731-9. Scope: textbook, reference. Level: undergraduate, advanced undergraduate, postgraduate, teacher, engineers. *Contemporary Physics*,

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[4073] Peter J. Bussey. Book review: *Niels Bohr: a very short introduction*, by J. L. Heilbron, Oxford, Oxford University Press, 2020, 160 pp., $11.95 (paperback), ISBN 978-0-19-881926-4. Scope: general interest, biography. Level: scientist. *Contemporary Physics*, 61(1):67–68, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4074] G. J. Milburn. The thermodynamics of clocks. *Contemporary Physics*, 61 (2):69–95, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4075] Ben J. Powell. Emergent particles and gauge fields in quantum matter. *Contemporary Physics*, 61(2):96–131, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lahav:2020:DEI

[4076] Ofer Lahav. Dark energy: is it 'just' Einstein's cosmological constant Λ? *Contemporary Physics*, 61(2):132–145, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2020:BRP

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Ali:2020:BRE

[4078] Muhammad Mahmood Ali. Book review: *Experimental methods for science and engineering students: an introduction to the analysis and presentation of data*, 2nd edition. L. Kirkup, Cambridge, Cambridge University Press, 2019, 239 pp., £37.99 (hardback), ISBN: 978-1-108-41846-1. Scope: monograph, handbook, guide, textbook. Level: undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(2):146–147, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRX

[4079] Andrew Resnick. Book review: *"X-ray Microscopy"*, by Chris Jacobsen, Cambridge, UK, Cambridge University Press, University Printing House, 2020, $135, 579 pp., ISBN: 978-1-107-07657-0. Scope: Monograph. Level: advanced undergraduate student, graduate student. *Contemporary Physics*, 61(2):147–148, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRW

[4080] Andrew Resnick. Book review: *Waves and rays in seismology: answers to unasked questions*, 2nd edition, by Michael A. Slawinski, Singapore, World Scientific, 2018, 576 pp., £140 (hardback), ISBN: 978-981-3239-87-6. Scope: monograph. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 61(2):148, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2020:BRI

[4081] A. H. Harker. Book review: *Introduction to graphene-based nanomaterials: from electronic structure to quantum transport*, 2nd edition, by Luis E. F. Foa Torres, Stephan Roche and Jean-Christophe Charlier, Cambridge, UK, Cambridge University Press, 2020, 15pp. + 461pp., £74.99 (hardback), ISBN: 978-1-108-47699-7. Scope: textbook. Level: early stage researcher, postgraduate. *Contemporary Physics*, 61(2):149, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Barber:2020:BRC

[4082] David C. Barber. Book review: *The cosmic mystery tour*, by N. Mee, Oxford, Oxford University Press, 2019, 207 pp., £16.99 (hardback), ISBN: 978-019-8831-86-0. Scope: review. Level: general readership. *Contemporary Physics*, 61(2):149–150, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRE

[4083] Andrew Resnick. Book review: *The essence of crystallography*, by Mark Ladd, Singapore, World Scientific, 2020, 532 pp., £105 (hardback), ISBN: 978-178-6346315. Level: advanced undergraduate, postgraduate, early career researcher. Scope: textbook. *Contemporary Physics*, 61(2):150, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2020:BRP

[4084] Salvatore Esposito. Book review: *Physics problems for aspiring physical scientists and engineers*, by K. Riley, Cambridge, UK, Cambridge University Press, 2019, 335 pp., £24.99 (paperback), ISBN: 978-1-1087-0130-3. Scope: reference. Level: pre-university, undergraduate, teacher. *Contemporary Physics*, 61(2):150–151, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRL

[4085] Eric Howard. Book review: *Lectures on the infrared structure of gravity and gauge theory*, by A. Strominger, Princeton, New Jersey, Princeton University Press, 2018, 200 pp., £41.95 (Paperback), ISBN 978-0-691-17973-5. Scope: review. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 61(2):151–152, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2020:BRC

[4086] R. S. Shorter. Book review: *Competitive physics: mechanics and waves*, by J. Wang and B. Ricardo, Singapore, World Scientific, 2018, 832 pp., $68.00 (paperback), ISBN: 978-981-323-518-2. Scope: general interest, textbook. Level: general readership, pre-university, undergraduate. *Contemporary Physics*, 61(2):152–153, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Millen:2020:QEM

[4087] James Millen and Benjamin A. Stickler. Quantum experiments with microscale particles. *Contemporary Physics*, 61(3):155–168, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vincent:2020:IDD

[4088] U. E. Vincent and O. Kolebaje. Introduction to the dynamics of driven nonlinear systems. *Contemporary Physics*, 61(3):169–192, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nurgalieva:2020:TQT

[4089] Nuriya Nurgalieva and Renato Renner. Testing quantum theory with thought experiments. *Contemporary Physics*, 61(3):193–216, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2020:BRR

[4090] B. Ishak. Book review: *Red Dwarfs: their geological, chemical, and biological potential for life* (2nd ed.). *Contemporary Physics*, 61(3):217, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2020:BRSa

[4091] B. Ishak. Book review: *Star maps: history, artistry, and cartography*, 3rd edition, by N. Kanas, Switzerland, Springer, 2019, 563 pp, £39.99 (hardback), ISBN 978-3-030-13612-3. *Contemporary Physics*, 61(3):217, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2020:BRP

[4092] R. S. Shorter. Book review: *Principles of optics*, 7th edition — 60th anniversary edition, by M. Born and E. Wolf, Cambridge, Cambridge University Press, 2019, 992 pp., £54.99 (hardback), ISBN: 978-1-108-47743-7. *Contemporary Physics*, 61(3):217–218, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2020:BRQ

[4093] Nikolaos E. Myridis. Book review: *Quantum concepts in the social, ecological and biological sciences*, by F. Bagarello, Cambridge, Cambridge University Press, 2019, 300 pp., £59.99 (hardback), ISBN: 978-1-108-49212-6. *Contemporary Physics*, 61(3):218–219, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2020:BRT

[4094] Toni Shiroka. Book review: *Thermodynamics of magnetizing materials and superconductors*, by Vladimir Kozhevnikov, Boca Raton, CRC Press, 2019, 133 pp., £50.00 (hardback), ISBN: 978-1-138-49993-5. *Contemporary Physics*, 61(3):219–220, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2020:BRA

[4095] Toni Shiroka. Book review: *Application-driven quantum and statistical physics: a short course for future scientists and engineers, volume 2: equilibrium*, by J. M. Gillet, London, World Scientific, 2019, 314 pp., $45.00 (paperback), ISBN: 978-178-6347-03-9. *Contemporary Physics*,

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Shiroka:2020:BRI

[4096] Toni Shiroka. Book review: *Introduction to solid state physics*, by A. Aharony and O. Entin-Wohlman, Singapore, World Scientific, 2018, 640 pp., $148.00 (hardback), ISBN: 978-981-3272-24-8. *Contemporary Physics*, 61(3):221–222, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2020:BRM

[4097] Robert S. MacKay. Book review: *Modern thermodynamics for chemists and biochemists*, by D. Sherwood and P. Dalby, Oxford, Oxford University Press, 2018, 912 pp., £45 (paperback), ISBN: 978-0-19-878470-8. *Contemporary Physics*, 61(3):222–223, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRT

[4098] Eric Howard. Book review: *Topological phase transitions and new developments*, by Lars Brink, Mike Gunn, Jorge V Jose, John Michael Kosterlitz and Kok Khoo Phua, Singapore, World Scientific, 2018, 264 pp., $78.00 (hardback), ISBN: 978-981-327-133-3. *Contemporary Physics*, 61(3):224, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2020:BRC

[4099] Nikolaos E. Myridis. Book review: *Complexity science: an introduction*, edited by M. A. Peletier, R. A. van Santen, and E. Steur, Singapore, World Scientific, 2019, 428 pp., £120.00 (hardback), ISBN 978-981-323-959-3. *Contemporary Physics*, 61(3):224–226, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Caruso:2020:BRE

[4100] Francisco Caruso. Book review: *Ether and modernity*, edited by J. Navarro, Oxford, UK, Oxford University Press, 2018, 272 pp., £65.00 (hardback), ISBN 978-0-19-879725-8. *Contemporary Physics*, 61(3):226–227, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McIver:2020:DGW

[4101] Jess McIver and D. H. Shoemaker. Discovering gravitational waves with Advanced LIGO. *Contemporary Physics*, 61(4):229–255, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

White:2020:HCD

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Campugan:2020:OMS

[4103] Carl A. Campugan, Kylie R. Dunning, and Kishan Dholakia. Optical manipulation: a step change for biomedical science. *Contemporary Physics*, 61(4):277–294, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

delaTorre:2020:CBE

[4104] Laura de la Torre and Juan A. Añel. Connections between the earth's atmosphere and its magnetosphere. *Contemporary Physics*, 61(4):295–297, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2020:BRSb

[4105] B. Ishak. Book review: *A student's guide to the Schrödinger equation*, by Daniel A. Fleisch, Cambridge University Press, 2020, $24.99 (Paperback), ISBN 978-1-108-81978-7. Scope: guide, textbook. Level: advanced undergraduate. *Contemporary Physics*, 61(4):298, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRP

[4106] Muhammad Mahmood Ali and Gabriel Leen. Book review: *From photons to atoms: the electromagnetic nature of matter*, by D. Funaro, Singapore, World Scientific Publishing Co. Pte. Ltd., 2019, 296 pp., £95.00 (hardback), ISBN: 978-981-12-0423-4. Scope: reference, monograph, general interest. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(4): 298–299, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2020:BRP

[4107] Robert S. MacKay. Book review: *The physics of gamma-ray bursts*, by Bing Zhang, Cambridge, Cambridge University Press, 2019, 579 pp., $79.99 (hardback), ISBN 978-1-107-02761-9. Scope: monograph, Level: researchers. *Contemporary Physics*, 61(4):299–300, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRM

[4108] Eric Howard. Book review: *Modified gravity: progresses and outlook of theories, numerical techniques and observational tests*, edited by Baojiu Li and Kazuya Koyama, Singapore, World Scientific, 2019, 313 pp., $98 (hardback), ISBN: 978-981-327-399-3. Scope: review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(4): 300–301, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tennyson:2020:BRC

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Ashworth:2020:BRIb

[4110] Stephen H. Ashworth. Book review: *The iodine molecule: insights into intra- and intermolecular perturbation in diatomic molecules*, by S. Lukashov, A. Petrov, and A. Pravilov, Cham, Springer, 2018, 199 pp., £74.99 (hardback), ISBN: 978-3-319-70071-7. Scope: review. Level: researcher. Specialist. Scientist. *Contemporary Physics*, 61(4):302–303, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2020:BRM

[4111] Chih-Yueh Wang. Book review: *Measurements, mechanisms, and models of heat transport*, by A. M. Hofmeister, Elsevier, 2018, 440 pp., £65.41 (paperback), ISBN 978-0-12-809981-0. Scope: monograph. Level: postgraduate, researcher, scientist. *Contemporary Physics*, 61(4):303–304, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRAa

[4112] David J. Miller. Book review: *Astronomical spectroscopy: an introduction to the atomic and molecular physics of astronomical spectroscopy*, by J. Tennyson, Singapore, World Scientific, 2019, 264 pp., £33.00 (paperback), ISBN 978-1-78634-707-7. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 61(4):304, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Caruso:2020:BRM

[4113] Francisco Caruso. Book review: *The Majorana Case: letters, documents, testimonies*, by Erasmo Recami, Singapore, World Scientific, 2020, 400 pp., £29.90 (paperback), ISBN 978-981-12-0769-3. Scope: book, general interest. Level: undergraduate, advanced undergraduate, postgraduate, early career research, historian of science, teacher, and specialist. *Contemporary Physics*, 61(4):304–305, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRAb

[4114] David J. Miller. Book review: *About stars: their formation, evolution, compositions, locations and companions*, by Michael M. Woolfson, Singapore, World Scientific, 2019, \$78/£75 (hardback), \$38/£35 (paperback), ISBN 978-1-78634-712-1 (hardback), 978-1-78634-725-1 (paperback). Scope: textbook, with problems and specimen answers. Level: Physics or Astronomy students or professionals. *Contemporary Physics*, 61(4):305–307, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRSa

[4115] David J. Miller. Book review: *The sun today*, by Claudio Vita-Finzi, Cham, Switzerland, Springer, 2018, 111 pp., £9.99 (paperback), ISBN 978-3-030-04078-9. Scope: general interest. Level: general readership. *Contemporary Physics*, 61(4):307, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2020:BRMb

[4116] Manuel Vogel. Book review: *Molecules in electromagnetic fields: from ultracold physics to controlled chemistry*, by R. V. Krems, New York, Wiley, 2018, 384 pp., £110.00 (hardback), ISBN: 978-1-118-17361-9. Scope: monograph. Level: postgraduate, researcher, scientist. *Contemporary Physics*, 61(4):307–308, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRSb

[4117] David J. Miller. Book review: *Stephen Hawking; a memoir of friendship and physics*, by Leonard Mlodinow, New York, Allen Lane, 2020, 240 pp., £20.00 (Hardback), ISBN: 978-0-241-41113-1. Scope: biography, with added science. Level: general readers, undergraduates, high school students. *Contemporary Physics*, 61(4):308–309, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Cassidy:2020:BRI

[4118] David Cassidy. Book review: *An introduction to cold and ultracold chemistry: atoms, molecules, ions and Rydbergs*, by Jesús Pérez Ríos, Cham, Springer, 2020, 267 pp., £59.99 (E-Book), ISBN: 978-3-030-55936-6. Scope: text book. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(4):309–310, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRS

[4119] Eric Howard. Book review: *Synthetic spin-orbit coupling in cold atoms*, edited by Wei Zhang, Wei Li and Carlos A. R. Sá Melo, Singapore, World Scientific, 2018, 308 pp., £84.10 (hardback), ISBN: 978-981-327-252-1. Scope: review. Level: early career researcher, researcher. *Contemporary Physics*, 61(4):310, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRC

[4120] Muhammad Mahmood Ali. Book review: *Computational acoustics: theory and implementation*, by D. R. Bergman, Hoboken, NJ, Wiley, 2018, 296 pp., £99.95 (hardcover), ISBN: 978-1-119-27728-6. Scope: reference, guide, general interest, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(4):310–311, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pospisil:2020:BRP

[4121] Christina Pospisil. Book review: *Principles of space-time-matter: cosmology, particles and waves in five dimensions*, by P. S. Wesson and J. M. Overduin, Singapore, World Scientific, 2019, 262 pp., £85.00 (Hardback), ISBN: 978-981-323-577-9. Scope: review. Level: early career researcher. *Contemporary Physics*, 61(4):311–312, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2020:BRE

[4122] Matt Probert. Book review: *Electronic structure: basic theory and practical methods*, 2nd edition, by Richard M. Martin, Cambridge, Cambridge University Press, 2020, £64.99, ISBN 978-1-108-42990-0. Level: postgraduate, early career researcher, researcher. Scope: reference text. *Contemporary Physics*, 61(4):312, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2020:BRO

[4123] Peter J. Bussey. Book review: *Origin and evolution of the universe. From Big Bang to exobiology*, 2nd edition, edited by M. A. Malkan and B. Zuckerman, Singapore, World Scientific, 2020, xiv + 232 pp., £75 (hardback), £30 (softback), ISBN 978-981-12-0645-0. Level: undergraduate, teacher. Scope: guide, edited book. *Contemporary Physics*, 61(4): 312–313, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lukishova:2021:IRP

[4124] Svetlana G. Lukishova, Anatoly V. Masalov, and Victor N. Zadkov. Icons of Russian physics: From the Lebedev Scientific School in Physics to the Lebedev Physical Institute. *Contemporary Physics*, 62(1):1–13, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rose:2021:ADA

[4125] S. J. Rose and P. W. Hatfield. Astronomy domine: advancing science with a burning plasma. *Contemporary Physics*, 62(1):14–23, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4126] Elizabeth Laier English, Ali Ashkhasi, and Peter Whibberley. Distributing time by fibre. *Contemporary Physics*, 62(1):24–38, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:MPP

[4127] Peter J. Bussey. Multiverse — physics or philosophy? *Contemporary Physics*, 62(1):39–41, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2021:PMP

[4128] Chih-Yueh Wang. Principia and magnificent Principia. *Contemporary Physics*, 62(1):42–45, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2021:BRM

[4129] Miguel A. F. Sanjuán. Book review: A modern approach to teaching classical mechanics: A review of *Modern classical mechanics* by T. M. Helliwell and V. V. Sahakian, Cambridge, Cambridge University Press, 2020, 704 pp., £56.00, (hardback), ISBN 978-1-108-83497-1. *Contemporary Physics*, 62(1):46–49, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRPa

[4130] A. H. Harker. Book review: *The physics of graphene*, 2nd edition, by Mikhail I. Katsnelson, Cambridge, UK, Cambridge University Press, 2020, 436 pp., $84.99 (hardback), ISBN: 978-1-108-47164-0. *Contemporary Physics*, 62(1):50, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pospisil:2021:BRS

[4131] Christina Pospisil. Book review: *String theory in a nutshell*, 2nd edition, edited by Elias Kiritsis, Princeton University Press, 2019, 888 pp., $95 (hardback), ISBN 978-0-691-15579-1. *Contemporary Physics*, 62(1): 50–51, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Aczel:2021:BRP

[4132] Miriam R. Aczel. Book review: *Practical alchemy: a memoir*, Walter A. Harrison, Hackensack, NJ, World Scientific, 2018, 176 pp., $28.00 (paperback), ISBN: 978-981-327-831-8. *Contemporary Physics*, 62(1): 51–52, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Aczel:2021:BRC

[4133] Miriam R. Aczel. Book review: *The cosmos: astronomy in the new millennium*, 5th edition. *Contemporary Physics*, 62(1):52–53, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRM

[4134] Peter J. Bussey. Book review: *Modern quantum mechanics*. *Contemporary Physics*, 62(1):53–54, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bengtsson:2021:BRD

[4135] Ingemar Bengtsson. Book review: *The discovery of cosmic voids* by Laird A. Thompson, Cambridge, Cambridge University Press, 2020, 290 pp., £39.99 (hardback), ISBN 978-1-108-49113-6. *Contemporary Physics*, 62 (1):54, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRNa

[4136] Manuel Vogel. Book review: *The NASA Kepler mission*, edited by Steve B. Howell, Bristol, IOP Publishing, 2020, 272 pp., $190 (hardback), ISBN

978-0-7503-2294-2. *Contemporary Physics*, 62(1):55, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2021:BRQ

[4137] Stephen H. Ashworth. Book review: *Quantum space*, y Jim Baggott, Oxford, Oxford University Press, 2018, £20.00 (hardback), ISBN 978-0-19-880911-1. *Contemporary Physics*, 62(1):55–56, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gaunt:2021:BRC

[4138] Jonathan Richard Gaunt. Book review: *Coherent states in gauge theories and applications in collider physics*, by M. Greco, World Scientific, 2019, 172 pp., £75 (Hardback), ISBN: 978-981-12-1389-2. *Contemporary Physics*, 62(1):56–57, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2021:BRI

[4139] Mario Bertolotti. Book review: *An introduction to quantum optics: an open system approach*, by Perry Rice, Bristol, UK, IoP Publishing, 2020, xii+225 pp. with figures, $95.00 (e-book), ISBN 978-0-7503-1713-9. *Contemporary Physics*, 62(1):57–58, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2021:BRE

[4140] Mario Bertolotti. Book review: *Electromagnetic waves and lasers*, 2nd edition, by Wayne D. Kimura, IOP Science, Bristol, UK, 2020, xv + 142 pp. with figures, $159.00 (paperback/hardback), ISBN: 978-0-7503-3521-8. *Contemporary Physics*, 62(1):58, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2021:BRS

[4141] Eric Howard. Book review: *Semiclassical and stochastic gravity: quantum field effects on curved spacetime*, Bei-Lok B. Hu and Enric Verdaguer, Cambridge, Cambridge University Press, 2020, 614 pp., £155.00 (hardback), ISBN: 978-0-521-19357-3. *Contemporary Physics*, 62(1):58–59, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRB

[4142] R. S. Shorter. Book review: *The Bohr atom: a guide*, by Bruce Cameron Reed, Bristol, IOP Science, 2020, 104 pp., $159.00 (E-book), Online ISBN 978-0-7503-3611-6; Print ISBN: 978-0-7503-3609-3. *Contemporary*

Physics, 62(1):59, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

DeAngelis:2021:BRC

[4143] Alessandro De Angelis. Book review: *Cosmic messengers: the limits of astronomy in an unruly universe*, by Martin Harwit, Cambridge, Cambridge University Press, 2021, 396 pp., $32.00 (E-Book), ISBN: 978-1-108-90616-6. *Contemporary Physics*, 62(1):59–61, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2021:BRP

[4144] Jesus Rogel-Salazar. Book review: *Physics of digital photography*, 2nd edition, by Andy Rowlands, Bristol, UK, IOP Science, 2020, 165 pp., $159.00 (E-Book), ISBN: 978-0-7503-2558-5. *Contemporary Physics*, 62 (1):61, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Volpe:2021:BRD

[4145] Giovanni Volpe. Book review: *Don't be afraid of physics: quantum mechanics, relativity and cosmology for everyone*, by Ross Barrett and Pier Paolo Delsanto, Cham, Switzerland, Springer Nature, 2021, 293 pp., £17.99 (e-book), ISBN 978-3-030-63409-4. *Contemporary Physics*, 62 (1):61–62, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2021:BRI

[4146] B. Ishak. Book review: *Introduction to galaxy formation and evolution: from primordial gas to present-day galaxies*, by Andrea Cimatti, Filippo Fraternali, and Carlo Nipoti, Cambridge, Cambridge University Press, 2019, 582 pages, $69.99 (hardback), ISBN: 978-1-107-13476-8. *Contemporary Physics*, 62(1):62, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRM

[4147] R. S. Shorter. Book review: *Modern physics: a critical approach*, edited by Canio Noce, Bristol, Institute of Physics Publishing, 2020, 450 pp., £64 (hardback), ISBN: 978-0-7503-2676-6. *Contemporary Physics*, 62 (1):62–63, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRPa

[4148] Mogadalai P. Gururajan. Book review: *Probability and statistics in the physical sciences*, 3rd edition, by Byron P. Roe, New York, Springer

Nature Switzerland, 2020, 285 pp., EUR 46 (e-book), ISBN: 978-3-030-53693-0. *Contemporary Physics*, 62(1):63–64, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Andrews:2021:BRM

[4149] David Andrews. Book review: *Mind and the cosmic order: how the mind creates the features & structure of all things, and why this insight transforms physics*, by Charles Pinter, Springer, ISBN: 978-3-030-50083-2 (e-book). *Contemporary Physics*, 62(1):64–65, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2021:BRP

[4150] Nigel John Mason. Book review: *Planetary diversity: rocky planet processes and their observational signatures*, y Elizabeth J. Tasker, Yuka Fujii, Matthieu Laneuville, Cayman Unterborn, Steven J. Desch and Hilairy E. Hartnett, IOP Publishing, 2020, 266 pp., $159.00 (e-book), ISBN: 978-0-7503-2140-2. *Contemporary Physics*, 62(1):65–66, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRL

[4151] N. E. Myridis. Book review: *The large-scale structure of the Universe*, by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton University Press, 2020, 448 pp., £50.00 (paperback), ISBN: 978-0-691-20983-8. *Contemporary Physics*, 62(1):66–67, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Morozov:2021:SPD

[4152] Dmitry V. Morozov, Alessandro Casaburi, and Robert H. Hadfield. Superconducting photon detectors. *Contemporary Physics*, 62(2):69–91, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zuk:2021:BIC

[4153] Paweł Jan Zuk. A brief introduction to contemporary electrokinetics. *Contemporary Physics*, 62(2):92–104, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRD

[4154] Peter J. Bussey. Book review: *Do wave functions jump? Perspectives of the work of GianCarlo Ghirardi* edited by Valia Allori, Angelo Bassi, Detlef Dürr, and Nino Zanghi, Cham, CH, Springer Nature Switzerland, 2021, xv + 436 pp., £87.50 (hardcover), ISBN 978-3-0304-6776-0/

ISBN 978-3-0304-6777-7 (e-book). Scope: article collection. Level: early career researcher, specialist, scientist. *Contemporary Physics*, 62(2):105–106, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2021:BRN

[4155] Salvatore Esposito. Book review: *The neutrino story: one tiny particle's grand role in the cosmos* by Rabindra N. Mohapatra, Cham, Switzerland, Springer, 2021, xvi+222 pp., £17.99 (E-Book), ISBN 978-3-0305-1846-2. Scope: monograph, general interest. Level: non-specialists, undergraduate, specialist, scientist. *Contemporary Physics*, 62(2):106–107, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRE

[4156] A. H. Harker. Book review: *The equations of materials* by Brian Cantor, Oxford, Oxford University Press, 2020, 19 + 307pp., £59.99 (hardback), £29.99 (paperback), ISBN 978-0-19-885187-5 (hbk)/978-0-19-885188-2 (pbk). Scope: general interest. Level: pre-university, undergraduate. *Contemporary Physics*, 62(2):107, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2021:BRC

[4157] Robert S. MacKay. Book review: *The cosmic microwave background*, 2nd edition, by Ruth Durrer, Cambridge, UK, Cambridge University Press, 2021, 510 pp., £47.61 (hardback), ISBN 978-1-107-13522-2. Scope: textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):107–108, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRPa

[4158] David J. Miller. Book review: *Particle detectors: fundamentals and applications* by Hermann Kolanoski and Norbert Wermes, New York, Oxford University Press, 2020, 944 pp., $100 (Hardback), ISBN 978-0-19-885836-2. Scope: monograph. Level: graduate. *Contemporary Physics*, 62(2):108–109, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRA

[4159] David J. Miller. Book review: *Advances in nuclear physics: structure and reactions* edited by R.K. Puri, J. Aichelin, S. Gautam and R. Kumar, Springer Nature, 2020, 273 pp., £129.99 (hardback), ISBN 978-981-1590-61-0. Scope: conference proceedings. Level: researcher. *Contempo-*

rary Physics, 62(2):109–110, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRPb

[4160] David J. Miller. Book review: *The physics of the dark photon: a primer* by Marco Fabbrichesi, Emidio Gabrielli and Gaia Lanfranchi, Cham, Springer Nature, 2021, 78 pp., £44.99 (paperback), ISBN: 978-3-030-62518-4. Scope: review. Level: researcher. *Contemporary Physics*, 62 (2):110, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRC

[4161] David J. Miller. Book review: *Classical mechanics: a professor–student collaboration* edited by Mario Campanelli, Bristol, IOP Science, 2020, 376 pp., £99.00 (hardback), ISBN: 978-0-7503-2688-9. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 62(2):110–111, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRS

[4162] A. H. Harker. Book review: *Semiconductor physics: principles, theory and nanoscale* by S. Tiwari, Oxford, Oxford University Press, 2020, 19 + 803 pp., £65.00 (hardback), ISBN 978-0-19-875986-7. Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(2): 111–112, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Halttunen:2021:BRA

[4163] Krista Halttunen. Book review: *The advent of relativity* by Voldemar Smilga, Singapore, World Scientific, 2021, 352 pp., £60.00 (hardback), ISBN: 978-981-12-3114-8. Scope: monograph. Level: pre-university. *Contemporary Physics*, 62(2):112, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Osborn:2021:BRQ

[4164] H. Osborn. Book review: *From quarks to pions: chiral symmetry and confinement* by M. Creutz, World Scientific, 2018, 216 pp., £75 (hardback), ISBN: 978-981-322-923-5. Scope: monograph. Level: postgraduate. *Contemporary Physics*, 62(2):113, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lakshminarayanan:2021:BRH

[4165] Vasudevan Lakshminarayanan. Book review: *The handbook of medical image perception and techniques*, 2nd edition, by E. Samei and E.

A. Krupinski, Cambridge, UK, Cambridge University Press, 2018, 522 pp., £120.00 (hardback), ISBN: 978-1-107-19488-5. Scope: handbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 62(2):113–114, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2021:BRA

[4166] Stefano Scali. Book review: *Advanced quantum condensed matter physics: one-body, many-body, and topological perspectives* by Michael El-Batanouny, Cambridge, Cambridge University Press, 2020, £69.99 (hardback), ISBN: 978-1-108-48084-0. Scope: reference, textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):114–115, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2021:BRG

[4167] Stefano Scali. Book review: *Group theory for physicists*, 2nd edition, by Zhong-Qi Ma, Hackensack, NJ, World Scientific, 2019, 656 pp., £115 (paperback), ISBN: 978-981-327-796-0. Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):115–116, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2021:BRR

[4168] Chih-Yueh Wang. Book review: *Relativistic fluid dynamics in and out of equilibrium: and applications to relativistic nuclear collisions* by Paul Romatschke and Ulrike Romatschke, Cambridge, Cambridge University Press, 2019, 204 pp., US$140.00 (hardcover), ISBN-13: 978-1-108-48368-1. Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 62(2):116, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2021:BRI

[4169] Andrew Resnick. Book review: *An introduction to fluorescence correlation spectroscopy* by Thorsten Wohland, Radek Machán, and Sudipta Maiti, Bristol, IOP Publishing Ltd, 2020, 300 pages, $190.00, ISBN: 978-0-7503-2078-8. Scope: textbook, handbook. Level: advanced undergraduate student, graduate student, researcher. *Contemporary Physics*, 62(2):117, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4170] Andrew Resnick. Book review: *Stigmatic optics* by Rafael G. González-Acuña and Héctor A. Chaparro-Romo, Bristol, IOP Publishing Ltd, 2020, 308 pages, $190.00, ISBN-13: 978-0-7503-3461-7, ISBN-10: 0-7503-3461-4. Scope: textbook, handbook. Level: advanced undergraduate student, graduate student, researcher. *Contemporary Physics*, 62 (2):117–118, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRP

[4171] R. S. Shorter. Book review: *The physics of the Manhattan Project* by Bruce Cameron Reed, New York, Springer, Nature Switzerland AG, 2021, 256 pp., £43.99 (e-book), ISBN: 978-3-030-61372-3. Scope: general interest, textbook. Level: general readership, undergraduate, teacher. *Contemporary Physics*, 62(2):118, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRE

[4172] Manuel Vogel. Book review: *Electrons in motion: attosecond physics explores fastest dynamics* by F. Krausz, Singapore, World Scientific, 2019, 536 pp., $175 (hardback), ISBN: 978-981-12-0186-8. Scope: article collection. Level: researcher, specialist. *Contemporary Physics*, 62(2):119, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4173] Tim Gershon. Book review: *Particle–antiparticle asymmetry in the meson system* by Hiroaki Aihara, IOP Science, 2020, $190.00 (hardback), ISBN: 978-0-7503-3649-9, $159.00 (ebook), ISBN: 978-0-7503-3651-2. Scope: reference material, appropriate for undergraduate level. *Contemporary Physics*, 62(2):119–120, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shotter:2021:BRE

[4174] A. C. Shotter. Book review: *Essentials of nucleosynthesis and theoretical nuclear astrophysics* by Thomas Rauscher, Bristol, IOP Science, 2020, $190.00 (Hardback), 397 pp., ISBN 978-0-7503-1150-2. Level: advanced undergraduate, postgraduate, early career researcher, researcher. Scope: reference. *Contemporary Physics*, 62(2):120–121, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Volpe:2021:BRS

[4175] Giovanni Volpe. Book review: *Statistical mechanics: entropy, order parameters, and complexity* 2nd edition, by James P. Sethna, Oxford, Oxford University Press, 2021, 496pp., £58.99 (paperback), ISBN 978-0-19-886524-7. Scope: textbook. Level: undergraduate, postgraduate, advanced undergraduate. *Contemporary Physics*, 62(2):121–122, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRR

[4176] Dr. Manuel Vogel. Book review: *Relativity and cosmology: volume 5 of modern classical physics* by Kip S. Thorne and Roger D. Blandford, Princeton, Princeton University Press, 2021, 416 pp., £48 (softcover), ISBN: 978-0-691-20739-1. Scope: textbook. Level: advanced undergraduates. *Contemporary Physics*, 62(2):122, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRI

[4177] Peter J. Bussey. Book review: *Introduction to the standard model and beyond: quantum field theory, symmetries and phenomenology* by Stuart Raby, Cambridge, Cambridge University Press, 2021, xvi+619 pp., £60 (hardback), ISBN 978-1-108-49,419-9. Scope: textbook. Level: postgraduate. *Contemporary Physics*, 62(2):123, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRC

[4178] Mogadalai P. Gururajan. Book review: *Continuum mechanics of solids* by Lallit Anand and Sanjay Govindjee, Oxford, UK, Oxford University Press, 2020, 736 pp., £65.00 (hardback), ISBN: 978-0-19-886472-1. Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, engineers. *Contemporary Physics*, 62(2): 123–124, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4179] Samuel J. K. Barnes and Aneta Stefanovska. Physics of cellular energy metabolism. *Contemporary Physics*, 62(3):125–143, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kumar:2021:SCI

[4180] Sunil Kumar, Manoj Kumar, and Amarjeet Singh. Synthesis and characterization of iron oxide nanoparticles (Fe_2O_3, Fe_3O_4): a brief review.

Contemporary Physics, 62(3):144–164, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4181] Eran Palti. The swampland and string theory. *Contemporary Physics*, 62(3):165–179, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRG

[4182] Peter J. Bussey. Book review: *General relativity: the essentials* by Carlo Rovelli, Cambridge, Cambridge University Press, 2021, x+170 pp., £14.99 (paperback), ISBN 978-1-009-01369-7. Scope: textbook. Level: postgraduate. *Contemporary Physics*, 62(3):180, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2021:BRO

[4183] Peter J. Dobson. Book review: *Optical materials*, 2nd edition by Kelly Potter and Joseph Simmons, USA, Elsevier, 2020, 530 pp., £125-£155 (paperback) (E-Book), ISBN: 978-0-12-818642-8. Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 62(3): 180–181, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRSa

[4184] Peter J. Bussey. Book review: *Statistical Physics*, vol. 1 of *Modern Classical Physics* by Kip S. Thorne and Roger D. Blandford, Princeton, Princeton University Press, 2021, xxii+384 pp., £40 (paperback), ISBN 978-0-691-20612-7. Level: advanced undergraduate, postgraduate. scope: textbook. *Contemporary Physics*, 62(3):181–182, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2021:BRC

[4185] Chih-Yueh Wang. Book review: *Computational statistical physics* by Lucas Böttcher and Hans J. Herrmann, Cambridge, UK, Cambridge University Press, 2021, 257 pp., US$59.99 (E-book), ISBN 978-1-108-84142-9. Scope: textbook. Level: advanced undergraduate, postgraduate, early-career researcher, researcher, scientist, engineers. *Contemporary Physics*, 62(3):182–183, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2021:BRS

[4186] Nigel John Mason. Book review: *Space science and public engagement: 21st century perspectives and opportunities* by Amy

Kaminski, Elsevier, 2021, 298 pp., $69.95 (E-Book), ISBN: 978-0-12-817390-9, https://www.elsevier.com/books/space-science-and-public-engagement/kaminski/978-0-12-817390-9. Scope: review. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 62(3):183–184, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2021:BRE

[4187] M. Jamil. Book review: *Exploring classical mechanics: a collection of 350+ solved problems for students, lecturers, and researchers*, 2nd revised and enlarged English edition by G. L. Kotkin and V. G. Serbo, Oxford, UK, Oxford University Press, 2020, 400 pp., £29.99 (E-Book), ISBN: 978-0-19-885379-4. Scope: monograph, handbook, guide. Level: undergraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 62(3):184–185, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2021:BRT

[4188] Miguel A. F. Sanjuán. Book review: *Thermodynamics and statistical mechanics. An introduction for physicists and engineers* by Samya Zain, Bristol, IOP Publishing, 2021, 372 pp., £99 (hardback), ISBN: 978-0-7503-3083-1, 978-0-7503-3081-7. Scope: textbook. Level: undergraduate, advanced undergraduate, teacher, engineers. *Contemporary Physics*, 62 (3):185, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2021:BRT

[4189] Andrew Resnick. Book review: *Thermodynamics: principles characterising physical and chemical processes*, 5th edition by Jurgen Honig, London, Elsevier, 2020, $190 (E-Book), ISBN: 978-0-12-821940-9. Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, scientist. *Contemporary Physics*, 62(3):185–186, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRE

[4190] Mogadalai P. Gururajan. Book review: *Elasticity & fluid dynamics*, 1st edition by Kip S. Thorne and Roger D. Blandford, Series: Volume 3 of Modern Classical Physics, Princeton, USA, Princeton University Press, 2021, 450 pp. (565-1014), 50 USD (paperback), ISBN 978-0-691-20734-6. Scope: reference, textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, scientist, engineers.

Contemporary Physics, 62(3):186–187, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRSb

[4191] Peter J. Bussey. Book review: *Seven fundamental concepts in space-time physics* by Vesselin Petkov, Cham, CH, Springer International Publishing, 2021, xix + 81 pp., £50 (paperback), ISBN: 978-3-030-75638-3. Scope: monograph. Level: scientist. *Contemporary Physics*, 62(3): 187–188, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Xie:2021:MTP

[4192] Songbo Xie and J. H. Eberly. Managing the three-party entanglement challenge. *Contemporary Physics*, 62(4):189–198, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jiang:2021:PMB

[4193] Xiangqian Jiang and Andrew Henning. Precision metrology: from bulk optics towards metasurface optics. *Contemporary Physics*, 62(4):199–216, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rider:2021:SNL

[4194] M. S. Rider and W. L. Barnes. Something from nothing: linking molecules with virtual light. *Contemporary Physics*, 62(4):217–232, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:RP

[4195] Peter J. Bussey. Resolving a paradox. *Contemporary Physics*, 62(4): 233–235, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2021:BRQ

[4196] Eric Howard. Book review: *The quantum universe: essays on quantum mechanics, quantum cosmology, and physics in general* by James B. Hartle, Singapore, World Scientific, 2021, 624 pp., £110.00 (E-Book), ISBN: 978-981-12-1634-3. Scope: edited book. Level: early career researcher. *Contemporary Physics*, 62(4):236, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2021:BRM

[4197] Matt Probert. Book review: *Machine learning with neural networks: an introduction for scientists and engineers* by Bernhard Mehlig, Cam-

bridge, UK, Cambridge University Press, 2021, 249 pp., £39.99 (hardback), ISBN: 978-1-108-49493-9. Scope: monograph, textbook. Level: postgraduate, researcher. *Contemporary Physics*, 62(4):236–237, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRPb

[4198] Mogadalai P. Gururajan. Book review: *Physics of elasticity and crystal defects* Oxford series on materials modelling, by Adrian P. Sutton, Oxford, Oxford University Press, 2020, 288 pp., £45.00 (hardback), ISBN: 978-0-19-886078-5. Scope: monograph, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 62(4):237–238, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sharma:2021:BRI

[4199] Mohit Sharma. Book review: *Introduction to quantum nanotechnology: a problem focused approach* by Duncan G. Steel, Oxford, UK, Oxford University Press, 2021, 370 pp., £65.00 (hardback), ISBN 978-0-19-289507-3. Scope: reference, review. Level: postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 62(4): 238–239, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRC

[4200] Nikolaos E. Myridis. Book review: *Cosmology's century: an inside history of our modern understanding of the universe* Physics & Astronomy, by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton, NJ, Princeton University Press, 2020, 440 pp., $28.00 (hardback), ISBN (e-book) 978-0-691-20166-5. Scope: monograph. Level: non-specialists, undergraduate, advanced undergraduate, postgraduate, researcher, teacher, specialist, scientist. *Contemporary Physics*, 62(4):239–240, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2021:BRH

[4201] Jack Reid. Book review: *A handbook of mathematical methods and problem-solving tools for introductory physics* (second edition) by Joshua F. Whitney, Heather M. Whitney, IOP Science, Bristol, Institute of Physics Publishing, 2021, $120.00 (hardback), $90.00 (e-book), E-Book (https://store.ioppublishing.org/page/detail/A-Handbook-of-Mathematical-Methods-and-ProblemSolving-Tools-for-Introductory-Physics-Second-Edition/?K=9780750333993), ISBN 978-0-7503-3399-3. Scope: handbook. Level: undergraduate. *Contemporary Physics*, 62(4):240–241,

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Belsley:2021:BRU

[4202] Michael Belsley. Book review: *Ultrafast lasers and optics for experimentalists* by James David Pickering, Bristol, UK, IOP Science, 2021, 157 pp., ISBN 978-0-7503-3659-8. Scope: handbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 62(4):241–242, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRPb

[4203] A. H. Harker. Book review: *Principles of materials characterization and metrology* by Kannan M. Krishnan, Oxford, UK, Oxford University Press, 2021, 20 + 849 pp., ISBN 978-0-19-883025-2 (hbk), ISBN 978-0-19-883026-9 (pbk). Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(4):242, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRN

[4204] A. H. Harker. Book review: *Nuclear materials science*, 2nd edition by Karl Whittle, IOP Publishing Ltd, 2020, 218 pp., ISBN: 978-0-7503-2376-5 (ebook), ISBN: 978-0-7503-2374-1 (print). Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(4):242–243, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRP

[4205] Nikolaos E. Myridis. Book review: *Principles of physical Cosmology* by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton, NJ, Princeton University Press, 2020, 774 pp., £62.00 (e-book), ISBN 978-0-691-20672-1. Princeton series in physics & astronomy. Scope: reference. Level: non-specialists, advanced undergraduate, postgraduate, researcher, teacher, specialist, scientist. *Contemporary Physics*, 62(4): 243–244, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Boyack:2021:BRE

[4206] Rufus Boyack. Book review: *Electrostatics of conducting cylinders and spheres* by John Lekner, Melville, NY, AIP Publishing, 2021, 240 pp., \$135 (paperback), https://doi.org/10.1063/9780735423350, ISBN: 978-0-7354-2332-9. Scope: monograph. Level: scientist. *Contemporary Physics*, 62(4):244–245, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRNb

[4207] Manuel Vogel. Book review: *Nuclear data — a primer* by David G. Jenkins and John L. Wood, Bristol, UK, IOP Publishing, 2021, 198 pp., USD 190 (hardcover), ISBN 978-0-7503-2672-8. Scope: textbook. Level: advanced undergraduates and above. *Contemporary Physics*, 62(4):245–246, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2021:BRR

[4208] Miguel A. F. Sanjuán. Book review: *A random walk in physics. Beyond black holes and time-travels* by Massimo Cencini, Andrea Puglisi, Davide Vergni, and Angelo Vulpiani, Springer Nature Switzerland AG, 2021, 36.39 EUR (hardback), 224 pp. ISBN 978-3-030-72530-3. Scope: general interest. Level: general readership, undergraduate, teacher. *Contemporary Physics*, 62(4):246–247, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Deppisch:2021:BRF

[4209] Frank F. Deppisch. Book review: *Foundations of quantum cosmology* by Martin Bojowald, IOP Science, 2020, ISBN: 978-0-7503-2460-1 (E-Book). Scope: monograph. Level: physics graduate. *Contemporary Physics*, 62 (4):247, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2021:BRT

[4210] Stephen J. Blundell. Book review: *Theory of simple glasses: exact solutions in infinite dimensions* by Giorgio Parisi, Pierfrancesco Urbani and Francesco Zamponi, Cambridge University Press, 2020, 349 pages, £62.99 (hardcover), ISBN: 978-1-108-12049-4. Level: researcher. Scope: textbook. *Contemporary Physics*, 62(4):247–248, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2021:BRI

[4211] Stephen H. Ashworth. Book review: *The ideas of particle physics* by James Dodd and Ben Gripaios, Cambridge University Press, 2020, £34.99 (paperback, https://www.cambridge.org/gb/academic/subjects/physics/particle-physics-and-nuclear-physics/ideas-particle-physics-4th-edition?format=PB). ISBN 978-1-108-72740-2. Scope: review. Level: general readership, non-specialists, scientists. *Contemporary Physics*, 62(4):248–249, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Keller:2022:CQS

[4212] Matthias Keller. Cavity-QED with single trapped ions. *Contemporary Physics*, 63(1):1–14, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Chapman:2022:FLS

[4213] E. Chapman. First light: switching on stars at the dawn of time. *Contemporary Physics*, 63(1):15–33, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milburn:2022:PLM

[4214] G. J. Milburn and Sahar Basiri-Esfahani. The physics of learning machines. *Contemporary Physics*, 63(1):34–60, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2022:BRSa

[4215] Manuel Vogel. Book review: *Synchrotron radiation: sources and applications to the structural and electronic properties of materials* by D. Phil Woodruff, Cambridge, Cambridge University Press, 2021, 450 pp., £74.99 (hardback), ISBN: 978-1-316-99574-7. Scope: monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 63(1):61, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sivakumar:2022:BRQ

[4216] Srinivasan Sivakumar. Book review: *Quantum information processing, quantum computing, and quantum error correction: an engineering approach*, 2nd edition by Ivan Djordjevic, Elsevier, 2021, 838 pp., $125.00 (paperback), ISBN 978-0-12-821987-4. Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 63(1):61–62, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Beauty:2022:BRE

[4217] Aras Beauty, Laili Fitria Zulfa, and Iwan. Book review: *Entropy and free energy in structural biology: From thermodynamics to statistical mechanics to computer simulation* by Hagai Meirovitch, Boca Raton, CRC Press, 2020, 396 pp., £80.00 (hardback), ISBN 978-0-367-40692-9. Scope: textbook. Level: advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(1):62–63, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2022:BRQ

[4218] Jack Reid. Book review: *Quantum mechanics: introduction to mathematical formulation* by Martin Pieper, Wiesbaden, Springer International Publishing, 2021, xiii + 33 pp., £19.99 (paperback), ISBN 978-3-658-32645-6. Scope: guide. Level: general readership. *Contemporary Physics*, 63(1):63, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2022:BRT

[4219] Miguel A. F. Sanjuán. Book review: *Theory of the spread of epidemics and movement ecology of animals. An interdisciplinary approach using methodologies of physics and mathematics* by V. M. (Nitant) Kenkre and Luca Giuggioli, Cambridge, UK, Cambridge University Press, 2021, 330 pp., £120 (hardback), ISBN: 978-1-108-84140-5. Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 63(1):64, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2022:BRF

[4220] K. Alan Shore. Book review: *Fundamental properties of semiconductor nanowires* edited by Fukata Naoki and Rurali Riccardo, Singapore, Springer International Publishing, 2021, 454 pp., £87.50 (E-Book), ISBN 978-981-15-9049-8. Scope: monograph. Level: postgraduate, early career researcher. *Contemporary Physics*, 63(1):64–65, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2022:BRE

[4221] Peter J. Bussey. Book review: *Exofrontiers: big questions in exoplanetary science* edited by N. Madhusudhan, Bristol, IOP Publishing, 2021, xxi+ 287 pp., £108 (hardback), ISBN 978-0-7503-1470-1. Scope: article collection. Level: researcher. *Contemporary Physics*, 63(1):65–66, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2022:BRD

[4222] A. H. Harker. Book review: *Dimensional analysis: the great principle of similitude* by Jeffrey H. Williams, Bristol, UK, IOP Publishing Ltd, 2021, 20 + 223 pp., £120 (hardback), ISBN 978-0-7503-3653-6; £99 (e-book), ISBN 978-0-7503-3655-0. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 63(1):66–67, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2022:BRA

[4223] Jack Reid. Book review: *The ABCs of High-Pressure Science* by Sergei M. Stishov, London, World Scientific Publishing, 2021, £40.00 (hardback), ISBN: 978-1-78634-955-2. Scope: reference. Level: general readership. *Contemporary Physics*, 63(1):67, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2022:BRQ

[4224] Nikolaos E. Myridis. Book review: *Quantitative atomic-resolution electron microscopy* by Annick de Backer, Jarmo Fatermans, Arnold A. den Dekker and Sandra van Aert, vol. 217 of Advances in Imaging & Electron Physics, edited by Martin Hÿtch and Peter W. Hawkes, Elsevier, 2021, 294 pp., EUR139.13 (e-book), ISBN 978-0-323-85093-3. Scope: article collection. Level: researcher, scientist. *Contemporary Physics*, 63 (1):67–69, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2022:BRS

[4225] Stephen H. Ashworth. Book review: *The science of learning physics* by José P. Mestre and Jennifer L. Docktor, Singapore, World Scientific, 2021, 212 pp., £50.00 (hardback), ISBN 978-981-12-2654-0. also available as softback and ebook. Level: teacher, specialist. Scope: review. *Contemporary Physics*, 63(1):69, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ramires:2022:SAC

[4226] Aline Ramires. Symmetry aspects of chiral superconductors. *Contemporary Physics*, 63(2):71–86, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lian:2022:AMB

[4227] Xiaojuan Lian, Yuelin Shi, Shiyu Li, Bingxin Ding, Chenfei Hua, and Lei Wang. Applications of MXene-based memristors in neuromorphic intelligence applications. *Contemporary Physics*, 63(2):87–105, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ueda:2022:SBE

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[4232] Michael Belsley. Book review: *Virtual and real labs for introductory physics II: optics, modern physics, and electromagnetism* by Daniel Erenso, Bristol, UK, IOP Science, 2021, 380 pp., 90EUR (hardback), ISBN 978-0-7503-3713-7. Scope: textbook. Level: pre-university, undergraduate. *Contemporary Physics*, 63(2):156–157, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4233] Manuel Vogel. Book review: *String theory and the real world: the visible sector, 2nd edition* by Gordon Kane, Bristol, UK, IOP Publishing, 2021, 175 pp., \$50 (hardback); \$40 (ebook), ISBN: 978-0-7503-3581-2. Scope: monograph. Level: general readership. *Contemporary Physics*, 63(2): 157–158, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4242] Erin Ficrah Huda and Suci Indah Putri. Book review: *Tailored functional oxide nanomaterials: from design to multi-purpose applications* edited by Chiara Maccato and Davide Barica, Weinheim, Wiley, 2022, 512 pp., $156.35 (hardback), ISBN 978-3-527-34759-9. Scope: textbook. Level: undergraduate, advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(3):243–244, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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