Changes to the chemplants package

Elia Arnese Feffin
2019/11/19

Version 0.7.0 – 2019/02/13
• The chemplants package sees the light for the first time.
• First writing of the documentation.

Version 0.8.0 – 2019/02/19
• Implementation of the anchor coordinates nodes in the units code.
• Rewriting of the documentation with coordinate nodes.
• New example using coordinate nodes: absorption and stripping integration.

Versione 0.8.1 – 2019/02/20
• Bug fixed: coordinates node are not sensible to the global scale factor.

Version 0.8.2 – 2019/02/20
• New units: lamination valve, inlet, outlet and block.
• Bibliography updating: TikZ version 3.1.1.

Version 0.8.5 – 2019/02/21
• New units: cyclone, stirred reactor, packed bed reactor and film reactor.
• Units order is changed and categories (documentation sections) have been inserted into the .sty file.

Version 0.9.0 – 2019/02/22
• New definition of centrifugal pump and bottom node addition.
• New units: rotary pump, liquid ring pump, reciprocating pump, fan, centrifugal compressor, rotary compressor, reciprocating compressor, multistage compressor and ejector.
Version 0.9.1 – 2019/02/24
- New units: cone tank, dome tank, floating roof tank, bell gasholder and dry gasholder.

Version 0.9.2 – 2019/02/25
- Review of the film reactor symbol.
- Review of the heat exchangers node names, now defined as shell and pipes for the sake of clearance.

Version 0.9.3 – 2019/02/26
- Review of the cyclone node names
- New units: fluidized bed reactor, steam trap, scrubber, stratifier and settler.

Version 0.9.4 – 2019/02/26
- New units: gas-liquid separator, kettle boiler, tube bundle evaporator, basket evaporator, climbing film evaporator, stirred crystallizer and pipe bundle crystallizer.

Version 0.9.5 – 2019/03/03
- Review of the kettle boiler node names.
- Review of the code to draw packings: no more sharp knees protruding around units
- Added a TikZ library to access to the Hobby’s algorithm.
- New units: air heat exchanger, tube bundle heat exchanger, plates heat exchanger, spiral heat exchanger and pipe furnace.

Version 0.9.6 – 2019/03/04
- Review of the stirred reactor and stirred crystallizer node names: now the end of the stirrer is called shaft.
- New units: associative pics for reactors, which are tank reactor, jacket, stirrer, coil, sprayer, bubbler and packing.

Version 0.9.7 – 2019/11/18
- Documentation language revision: thanks to Desi Costa for the help.
- Now also the source code of the documentation is provided with the package.
- Changes are written in a more gracious format.
- Review of the plates heat exchanger: now it is called plate heat exchanger.
• Review of the **pipe furnace** node names: now the ends of the pipes are called **pipes left** and **pipes right**.

• Review of the **film reactor**: now it is called **tube bundle reactor**.

• Review of the **utility stream** style: the default thickness is now **very thin**.

• Review of the **signal** style: the default thickness is now **very thin** and the algorithm to place markings has changed.

• New stream style: **secondary stream** (provided of thickness customisation command).

• Review of **valve** and **valve triple**: these units now accept a new argument for **secondary streams** thickness.

• Review of **actuator**: dimension of this units are now doubled.

• New units: **valve quadruple**, **safety valve**.

**Version 0.9.8 – 2019/11/19**

• The chemplants package is ready to be officially published since, though not complete as I wish, it is mature enough.

• The package is now explicitly covered by the **\LaTeX** Project Public License (LPPL), version **1.3c**.

• The bibliography database is no more supplied, since it has been embedded into the source file of the documentation.