Sample Document using the glossaries Package

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Abstract

This is a sample document illustrating the use of the glossaries package. In this example, a new glossary type called notation is defined, so that the document can have a separate glossary of terms and index of notation. The index of notation doesn’t have associated numbers.
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Glossary

**cardinality** The number of elements in the specified set. 1

**set** A collection of distinct objects. 1
Notation

$|S|$ cardinality of $S$. 1

! factorial. 2

$\mathcal{S}$ A set. 1

$\mathcal{U}$ The universal set. 1, 2
Chapter 1

Introduction

Sets are denoted by a calligraphic font e.g. $\mathcal{S}$. Let $\mathcal{U}$ denote the universal set. The cardinality of a set $\mathcal{S}$ is denoted $|\mathcal{S}|$. 

Chapter 2

Another Chapter

Another mention of the universal set $U$.

The factorial symbol: $!$.  