

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.

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Glossary

cardinality The number of elements in the specified set. [iii](#), [1](#)

set A collection of distinct objects. [iii](#), [1](#)

Notation

$|\mathcal{S}|$ The **cardinality** of \mathcal{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 \mathcal{U} .
The factorial symbol: $!$.