Sample Document using the glossaries Package

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Abstract

This is a sample document illustrating the use of the \texttt{glossaries} package. In this example, a new glossary type called \texttt{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.  

**set**  A collection of distinct objects.  

Notation

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

! factorial. 2

$S$ A set. 1

$U$ The universal set. 1, 2
Chapter 1

Introduction

Sets are denoted by a caligraphic font e.g. $S$. Let $U$ denote the universal set. The cardinality of a set $S$ is denoted $|S|$. 
Chapter 2

Another Chapter

Another mention of the universal set $U$.
The factorial symbol: $!$. 