



UNIVERSITEIT•STELLENBOSCH•UNIVERSITY  
jou kennisvennoot • your knowledge partner

## **usnomenc1.sty\***

Simple utility to set a nomenclature or list of symbols for US theses.

Danie Els

e-mail: [dnjels@sun.ac.za](mailto:dnjels@sun.ac.za)

DEPARTMENT OF MECHANICAL ENGINEERING,  
UNIVERSITY OF STELLENBOSCH,  
PRIVATE BAG X1, MATIELAND, 7602.

2006/03/08

## **Contents**

<b>1</b>	<b>USnomenc1</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Macros . . . . .	2
1.3	Example of usage . . . . .	2
<b>2</b>	<b>Implementation: USnomenc1</b>	<b>3</b>

---

\*This document corresponds to `usnomenc1 v1.0a`, dated 2006/03/08.

# 1 USnomenc1

## 1.1 Introduction

The USnomenc1 package is a very simple utility to set a nomenclature or list of symbols. There are more sophisticated packages available such as `nomenclature`. The package is loaded in the preamble of the document with

```
\usepackage{usnomenc1}
```

## 1.2 Macros

The package provides the `Nomenc1` list environment to typeset lists of symbols.

```
\begin{Nomenc1}[\langle Label width \rangle]
\langle Nomenclature entries \rangle
\end{Nomenc1}
```

The optional argument (valid TeX length) can be used to adjust the label width. Headings can be set with the `\NomGroup` command.

```
\NomGroup{\langle Heading \rangle}
```

## 1.3 Example of usage

An example of the input of a list of symbols is

```
\begin{Nomenc1}[2em]
\NomGroup{Constants}
\item[$\pi = $] 3.141\,592\,654
\item[$\mathrm{e} = $] 2.718\,281\,828

\NomGroup{Variables}
\item[$\mathit{Re}_D \mathrm{\,D}$] Reynolds number (diameter)
\item[$x$] Coordinate \\
\item[$\theta$] Rotation angle
\item[$\tau$] Moment
\end{Nomenc1}
```

---

### Constants

$\pi =$  3.141 592 654  
 $e =$  2.718 281 828

### Variables

$Re_D$  Reynolds number (diameter)  
 $x$  Coordinate  
 $\theta$  Rotation angle  
 $\tau$  Moment

---

## 2 Implementation: USnomenc1

### Identification

```

1 (*pkg)
2 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
3 \ProvidesPackage{usnomenc1}[2006/03/08
4                               v1.0a
5                               Stellenbosh Thesis Nomenclature (DNJ ELS)]

```

### External packages

```

6 \RequirePackage{calc}

\USN@tdima
\USN@NomGrpSep
7 \newlength{\USN@tdima}
8 \newlength{\USN@NomGrpSep}

\NomGrpSep
\NomItmSep
9 \newlength{\NomGrpSep} \setlength{\NomGrpSep}{\baselineskip}
\NomItmMrg
10 \newlength{\NomItmSep} \setlength{\NomItmSep}{\smallskipamount}
\NomLblSep
11 \newlength{\NomItmMrg} \setlength{\NomItmMrg}{1em}
12 \newlength{\NomLblSep} \setlength{\NomLblSep}{1em}

\phantomsection
13 \providecommand*\phantomsection{}

\NomGrpLabel
14 \newcommand{\NomGrpLabel}[1]{\textbf{#1}}

\USN@NomGrpSep
15 \setlength{\USN@NomGrpSep}{0pt}

\NomGroup
16 \newcommand\NomGroup[1]{%<-Group Headings
17   \vspace{\USN@NomGrpSep}%
18   \setlength{\USN@NomGrpSep}{\NomGrpSep}%
19   \item[\hspace*{-\NomItmMrg}\NomGrpLabel{#1}]}

\NomLabel
20 \newcommand{\NomLabel}[1]{#1\hfil}

Nomencl
21 \newenvironment{Nomencl}[1][2em]{%<- Nomenclature list environment
22   {\list{}{%
23     \setlength{\labelwidth}{#1}%
24     \setlength{\labelsep}{\NomLblSep}%
25     \setlength{\itemindent}{0pt}%
26     \setlength{\leftmargin}{\labelwidth+\labelsep-\itemindent+\NomItmMrg}%
27     \setlength{\listparindent}{\parindent}%
28     \setlength{\itemsep}{\NomItmSep}%
29     \setlength{\parsep}{\parskip}%
30     \let\makelabel\NomLabel}}%
31   {\endlist}

```

32 </pkg>

The end of this package.

Change History

v1.0		v1.0a
General: Initial version . . . . .	1	General: Documentation changes . . 1