Nomenclature with longtable

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Chapter 1

Introduction

This file gives a very limited introduction to the use of longtable together with the nomencl package for writing nomenclatures.

It requires nomencl to be present on your system.

The way to go is: Install `nomenltb.sty` where latex can find it, and `nomenltb.ist` where makeindex can find that.

- Run latex. This generates the glossary input file `foo.glo`.

- Run makeindex with `makeindex -s nomenltb.ist -o foo.gls foo.glo`

- Run latex again.

An equation is needed for the current setup:

$$\mathbf{J}_i \cdot \Delta \underline{x}_{i+1} = -\underline{f}_i \tag{1.1}$$

The nomenclature is result of the following:

```
\nomenclature[aJ]{$J$}{Jacobian Matrix}{}
\nomenclature[Zi]{$i$}{Variable number}{}
\nomenclature[ax]{$\Delta x$}{Variable displacement vector}{}
\nomenclature[af]{$f$}{Residual value vector}{}
\nomenclature[ax]{$x$}{Variable value vector}{}
```

An some symbols with units:

$$F = m\alpha \tag{1.2}$$

```
\nomenclature[aF]{$F$}{Force}{N}
\nomenclature[am]{$m$}{mass}{kg}
\nomenclature[ga]{$\alpha$}{acceleration}{m/s$\mathrm{^2}$}
```