

Mini Tutorials

How To use the Mini Tutorials

base model:

final model:

How To use the PDFs

- ① Each tutorial has a so-called `"base model"` and a so-called `"final model"`
- ② If applicable they are mentioned on the title page
- ③ They are running alaska models and can be found in the sub-folder `models/`
- ④ The `"base model"` is the starting model for the current tutorial, load this model at the start of the tutorial
- ⑤ Make sure to save modified versions of these models under a different name!
This models should stay unmodified as fixed references
- ⑥ After finishing the current tutorial you can cross-check your model with the model in `"final model"`

How To use the PDFs – Text formats

- 1 There are certain text formats used within this tutorials:
- 2 **TTemplate** is used for alaska-templates
- 3 All model elements and analysis tasks are called templates, as there definitions can be compared to class definitions in a programming language
- 4 A model instance of a template in the alaska model will be written as `ModelElement`
- 5 Additional to templates the alaska modeling language contains variable types
- 6 A variable within the model will be formatted: `alaskaVariable`
- 7 For names of elements or certain options in the graphical user interface the format "Name of Element" will be used
- 8 The alaska model can be seen as a tree; it will be called "Model Tree"
- 9 Paths within the tree will be written using points: e. g. if there is an element `element1` in the top level, which contains the variable `var1`, the path to the variable will be written as `element1.var1`

How To use the PDFs – Itemization and Numeration

The tutorial contains itemizations and numerations

- ① If text is written in a numeration, then something should be done within the graphical user interface to modify or analyze the current model
- ▶ Text within itemizations is used for explanations and information; no action within the GUI is necessary

How To use the PDFs – Next tutorial

- ① On the last page of each tutorial is a link to the next proposed tutorial (see last page of this document for an example)
- ② We strongly advise to follow the proposed order as solutions for special situations will be explained the first time they occur in the tutorials, only
- ③ On the next page there is a full list of available tutorials with the proposed order

- ① Create a New Model
- ② alaska/ModellerStudio
- ③ 3D-Viewer
- ④ Insert a New Model Element
- ⑤ Insert a Material
- ⑥ Insert a New Rigid Body
- ⑦ Insert a General Rigid Body
- ⑧ Insert a Fixed Joint
- ⑨ Insert a Revolute Joint
- ⑩ Insert a Force Vector
- ⑪ Transform a Vector Using a Rotation
- ⑫ Insert a Spring-Damper
- ⑬ Insert a Plot
- ⑭ Data Export – Request

Next tutorial

Next tutorial: [Create a New Model](#)