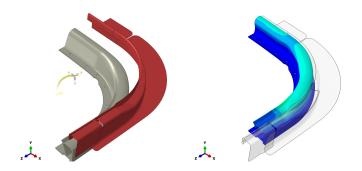


November 12, 2019

Masterarbeit

Thema

Structural design of AIRBUS sealing components



Motivation

During the development of a new aircraft, computer aided engineering tools are broadly used among the Stress Engineers. All the main structural components are analyzed in a virtual environment, from designing to simulation, before the certification phase. Elastomeric materials, such as rubber and silicon, are specifically used on secondary structural functions such door sealing lines.

Task description

In a partnership with AIRBUS and LRT4, a compliant seal design is researched by respecting its functions requirements, load conditions and non-linear material behavior. A good knowledge of a Computer Aided Engineer tool is necessary to generate the input geometries for simulation pre-processing. You should be able to help and to learn by designing geometries and having notions of the Finit Element Methods.

Requirements

CAD knowledge, FEM notions, English skills and motivation.

Betreuer

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