Cast3M Advanced Trainning Course

jeudi 13 décembre 2018 - vendredi 14 décembre 2018

Maison de la Simulation

Program

Cast3M presentation:
History
Basic principles
The command language: Gibiane

Introducing the PASAPAS procedure:
General use
Input parameters
Output parameters
Post-processing

Structure of the PASAPAS procedure:
Structure of PASAPAS
Structure of UNPAS
User's procedure examples in mechanics
Structure of TRANSNON
User's procedure examples in thermo-mechanics

This training course is given as a tutorial. From an existing Gibiane program, which is using PASAPAS, participants will have to modify the PASAPAS procedure in oder to solve a different problem. It consists of adding new Gibiane instructions in the initial alogorithm.

Four examples will be used in non linear mechanics, transient thermal analysis and coupled thermo-mechanics. We will focus on the following topics:
large displacements and following loading
variable models and material properties
variable boundary conditions.

Some parts will be the subject of detailed points on the whiteboard. A part of time will be devoted to various users questions about Cast3M. Participants can bring their own scripts in order to discuss their modeling.

The training course takes place in a computer room. Each participant will have a PC with the latest version of Cast3M.

The presentation slides can be downloaded on the Cast3M web site: http://www-cast3m.cea.fr/index.php?xml=formations