



CODE_ASTER TRAINING

Feb. 21st — Feb. 24th

By EDF Code_Aster Development team

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Jointly organized by

Electricite De France Group

Computer Network Information Center , Chinese Academy of Science

Center of Science Computing Application & Research, Chinese Academy of Science



Code_Aster IS EDF'S GENERAL PURPOSE, OPEN SOURCE STRUCTURE AND THERMOMECHANICS ANALYSIS SOFTWARE. [HTTP://CODE-ASTER.ORG](http://code-aster.org)

THERMO-MECHANICAL ANALYSES IN LINEAR AND NON-LINEAR STATICS AND DYNAMICS

Training Program

* NUMBER OF PARTICIPANTS IS LIMITED TO 30 PERSONS

DATE	LEVEL	MORNING	AFTERNOON
Fev.21st	Basic	Introduction of <i>Code_Aster</i> : Basic theory, applications, frame, service etc. EDF software development policy	A simple mechanical study Exercise 1: Calculation of an elastic perforated plate and mesh adaption
Fev.22nd	Basic	A simple thermal study Exercise 2: Pipe elbow under thermal-mechanical stress	Introduction of non-linear calculation Presentation of <i>Code_Aster</i> industrial application Exercise 3: Yield-point load of a perforated plate
Fev.23rd	Advanced	Introduction to dynamics Exercise 4: Modal analysis of a plane mock-up	Advanced dynamics & FSI (added mass effect and flow-induced vibration) Exercise 5: Seismic analysis of a dam and its reservoir
Fev.24th	Advanced	Fracture mechanics & XFEM Exercise 6: Crack plate in tension Exercise 7: Circular crack in infinite body	Presentations of <i>Code_Saturne</i> & <i>Telemac</i> Discussion

Code_Aster is integrated in platform of Salome, with user-friendly graphical interface and easy installation of a complete framework. It contains a wide range of constitutive laws (Elasticity, Elasto-plasticity, elasto-visco-plasticity, fuel rods and metal under irradiation). It is also to carry out parallel calculation with it.

Disclaimer: *Code_Aster* is an open-source software. EDF has the right to use it and share its experience on the use of *Code_Aster* with third parties. The training will focus on the use of *Code_Aster* and by participating in the seminar the attendees intend to share related experience. The software and its documentation are in the public domain and are furnished "as is". EDF, its affiliates, officers, employees, and agents make no warranty express or implied, as to the usefulness of the software and documentation for any purpose and they assume no responsibility (1) for the use of the software and documentation; or (2) to provide technical support to users.

