CODEASTER TRAINING
Feb. 21st — Feb. 24th

By EDF Code_Aster Development team

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Jointly organized by
Electricité 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

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<tr>
<td>Feb.21st</td>
<td>Basic</td>
<td>Introduction of Code_Aster: Basic theory, applications, frame, service etc. EDF software development policy</td>
<td>A simple mechanical study&lt;br&gt;Exercise 1: Calculation of an elastic perforated plate and mesh adaption</td>
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<td>Feb.22nd</td>
<td>Basic</td>
<td>A simple thermal study&lt;br&gt;Exercise 2: Pipe elbow under thermal-mechanical stress</td>
<td>Introduction of non-linear calculation&lt;br&gt;Presentation of Code_Aster industrial application&lt;br&gt;Exercise 3: Yield-point load of a perforated plate</td>
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<td>Feb.23rd</td>
<td>Advanced</td>
<td>Introduction to dynamics&lt;br&gt;Exercise 4: Modal analysis of a plane mock-up</td>
<td>Advanced dynamics &amp; FSI (added mass effect and flow-induced vibration)&lt;br&gt;Exercise 5: Seismic analysis of a dam and its reservoir</td>
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<td>Feb.24th</td>
<td>Advanced</td>
<td>Fracture mechanics &amp; XFEM&lt;br&gt;Exercise 6: Crack plate in tension&lt;br&gt;Exercise 7: Circular crack in infinite body</td>
<td>Presentations of Code_Saturne &amp; Telemac&lt;br&gt;Discussion</td>
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* Number of participants is limited to 30 persons

**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.

**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.