# Références externes publiées

**Résumé :**

Ce document constitue un inventaire évolutif des références externes publiées valorisant code_aster sur des applications représentatives de dossiers industriels. Celles-ci sont regroupées par **fonctionnalités**.

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# 1 Algorithmes et méthodologies

## 1.1 Analyse modale

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## 1.6 Extrapolation de mesures expérimentales

## 1.7 Interaction sol-structure

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## 1.10 Méthodes probabilistes

## 1.11 Conditions aux limites et de liaisons

## 1.12 Mécanique non linéaire

## 1.13 Solveurs algébriques

## 1.14 Fatigue

## 1.15 Thermo-hydro-mécanique couplée

## 1.16 Contact et frottement

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## 1.19 Thermique

## 1.20 Interaction fluide-structure

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## 1.22 Estimateurs d'erreur



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## 1.23 Outil-métiers



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# 2 Lois de comportement

## 2.1 Éléments discrets et de poutres

## 2.2 Thermo-élasticité

## 2.3 Élastoplasticité incrémentale

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## 2.5 Comportement des métaux polycristallins

## 2.6 Géo-matériaux et milieux poreux

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## 2.9 Comportement des armatures dans les structures en béton armé

## 2.10 Endommagement

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## 2.13 Élastoviscoplasticité des métaux

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# 3 Éléments finis

## 3.1 Éléments finis

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## 3.2 Éléments de structure

## 3.3 Éléments finis incompressibles

## 3.4 Éléments de joints, d'interface et de discontinuités



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