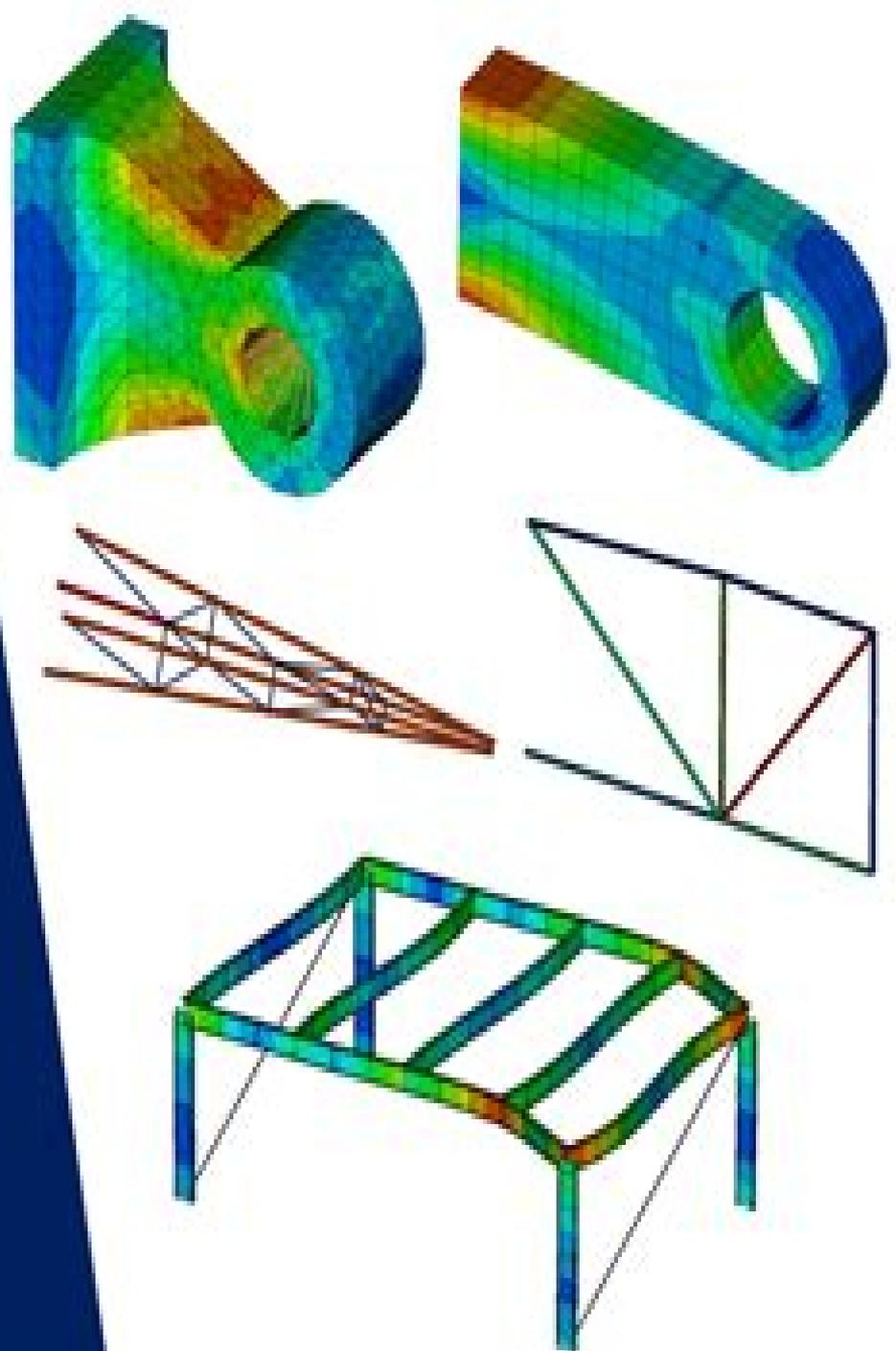




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The Finite Element Method for Linear Structural Analysis



An Extended Finite Element Method For The Analysis Of

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Mohammadi, 2008-04-30 This important textbook provides an introduction to the concepts of the newly developed extended finite element method XFEM for fracture analysis of structures as well as for other related engineering applications One of the main advantages of the method is that it avoids any need for remeshing or geometric crack modelling in numerical simulation while generating discontinuous fields along a crack and around its tip The second major advantage of the method is that by a small increase in number of degrees of freedom far more accurate solutions can be obtained The method has recently been extended to nonlinear materials and other disciplines such as modelling contact and interface simulation of inclusions and holes moving and changing phase problems and even to multiscale analyses The book is self contained with summaries of both classical and modern computational techniques The main chapters include a comprehensive range of numerical examples describing various features of XFEM

Extended Finite Element Method Amir R. Khoei, 2014-12-16

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2011 Bangkok Thailand XFEM ,2003 This report is one of two components the first an overview document outlining the goals and results of the XFEM LDRD project and the other titled Structured Extended Finite Element Methods of Solids defined by Implicit Surfaces detailing the scientific advances developed under FY01 FY02 LDRD funding The XFEM Extended Finite Element Method Engineering LDRD ER Project was motivated by three research and development goals 1 the extensions of standard finite element technology into important new research venues of interest to the Engineering Directorate 2 the automation of much of the engineering analysis workflow so as to improve the productivity of mesh generation and problem setup processes and 3 the development of scalable software tools to facilitate innovation in XFEM analysis and methods development The driving principle behind this LDRD project was to demonstrate the computational technology required to perform mechanical analysis of complex solids with minimal extra effort required on the part of mechanical analysts This need arises both from the growing workload of LLNL analysts in problem setup and mesh generation and from the requirement that actual as built mechanical configurations be analyzed Many of the most important programmatic drivers for mechanical analysis require that the actual e g deformed aged damaged geometric configuration of the solid be deduced and then accurately modeled for this programmatic need XFEM provides one of the only accurate methods available that can provide high fidelity results

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