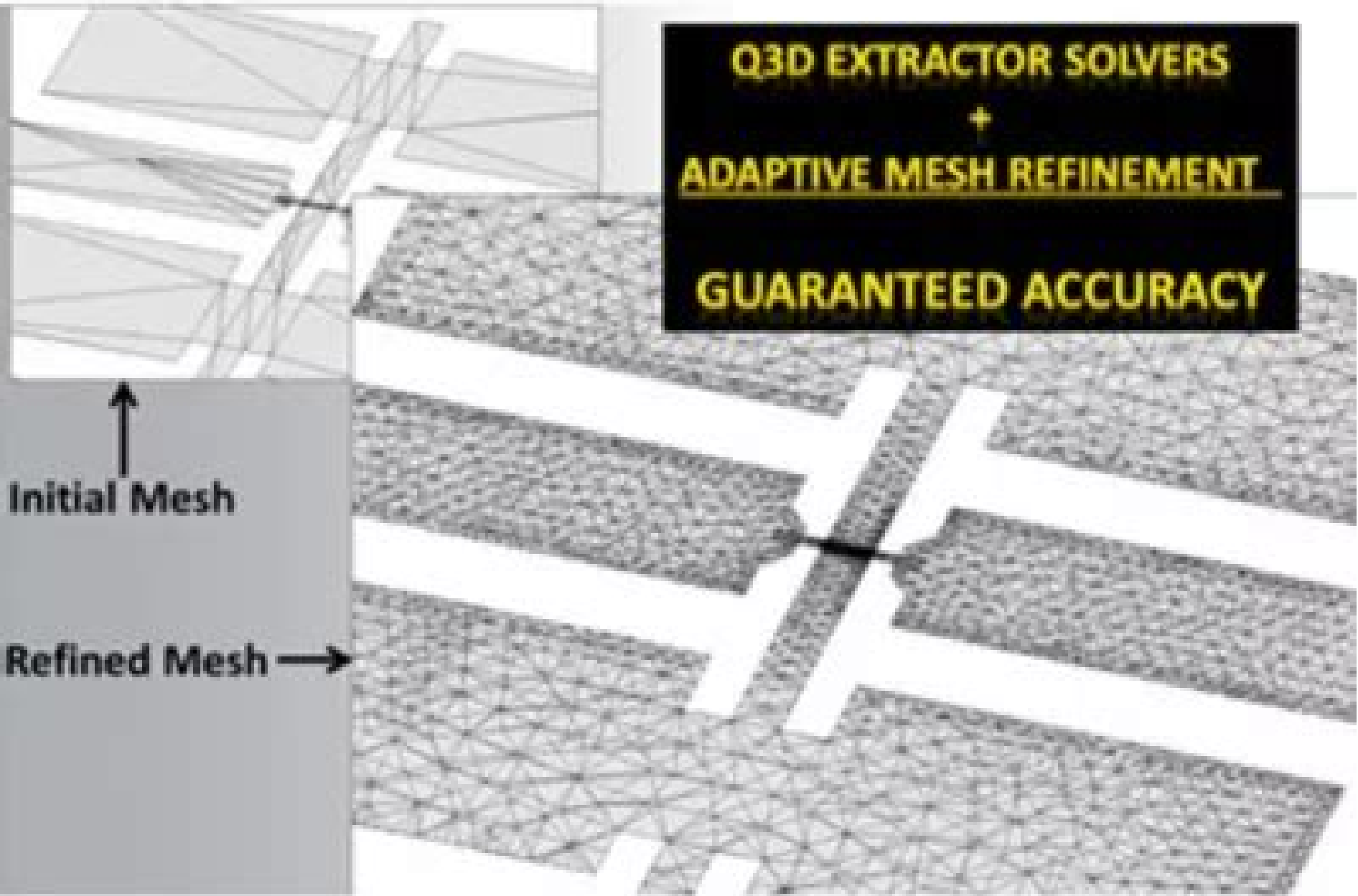


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Numerical Methods for Energy Applications Naser Mahdavi Tabatabaei, Nicu Bizon, 2021-03-22 This book provides a thorough guide to the use of numerical methods in energy systems and applications It presents methods for analysing engineering applications for energy systems discussing finite difference finite element and other advanced numerical methods Solutions to technical problems relating the application of these methods to energy systems are also thoroughly explored Readers will discover diverse perspectives of the contributing authors and extensive discussions of issues including a wide variety of numerical methods concepts and related energy systems applications systems equations and optimization partial differential equations and finite difference method methods for solving nonlinear equations special methods and their mathematical implementation in multi energy sources numerical investigations of electrochemical fields and devices and issues related to numerical approaches and optimal integration of energy consumption This is a highly informative and carefully presented book providing scientific and academic insight for readers with an interest in numerical methods and energy systems

Knowledge-Based Software Engineering Alla Kravets, Maxim Shcherbakov, Marina Kultsova, Tadashi

Iijima,2014-08-26 This book constitutes the refereed proceedings of the 11th Joint Conference on Knowledge Based Software Engineering JCKBSE 2014 held in Volgograd Russia in September 2014 The 59 full and 3 short papers presented were carefully reviewed and selected from 197 submissions The papers are organized in topical sections on methodology and tools for knowledge discovery and data mining methods and tools for software engineering education knowledge technologies for semantic web and ontology engineering knowledge based methods and tools for testing verification and validation maintenance and evolution natural language processing image analysis and recognition knowledge based methods and applications in information security robotics and navigation decision support methods for software engineering architecture of knowledge based systems including intelligent agents and softbots automating software design and synthesis knowledge management for business processes workflows and enterprise modeling knowledge based methods and applications in bioscience medicine and justice knowledge based requirements engineering domain analysis and modeling intelligent user interfaces and human machine interaction lean software engineering program understanding programming knowledge modeling programs and programmers

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