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Programming Finite Elements In Javatm

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The finite element method (FEM) is a computational technique for solving problems which are described by partial differential equations or which can be formulated as functional minimization. The FEM is commonly used in the design and development of products, especially where structural analysis is involved. The simple object model of the Java™ programming language lends itself to efficient implementation of FEM analysis.

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Description. Programming Finite Elements in Java (TM) teaches the reader how to programme the algorithms of the finite element method (FEM) in Java (TM). The compact, simple code helps the student to read the algorithms, to understand them and thus to be able to refine them. All of the main aspects of finite element techniques are considered: finite element solution; generation of finite element meshes; and visualization of finite element models and results with Java 3D (TM).

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Programming Finite Elements In Javatm

This book focuses on algorithms of the finite element method and their program-ming. First, general equations of the finite element method for solving solid me-chanics and thermal conductivity problems are introduced. Then, algorithms of the finite element method and their programming in JavaTM are considered. In addition

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Programming Finite Elements In Java by Gennadiy P. Nikishkov

This book provides an introduction to programming the finite element method in Java for students, researchers and engineers who are reasonably familiar with the finite element method and want to learn how to write their own finite element code using Java. This book is written as an introductory text and it is assumed that the reader has little ...

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