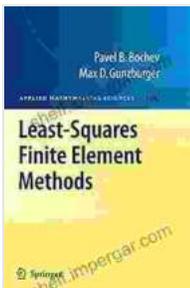


Master the Finite Element Method with "Least Squares Finite Element Methods"

Are you ready to unlock the power of the finite element method? Look no further than the comprehensive guide, "Least Squares Finite Element Methods: Applied Mathematical Sciences 166."



Least-Squares Finite Element Methods (Applied Mathematical Sciences Book 166) by Pavel B. Bochev

★★★★☆ 4.6 out of 5

Language : English

File size : 12307 KB

Screen Reader : Supported

Print length : 682 pages



What is the Finite Element Method?

The finite element method (FEM) is a powerful numerical technique used to solve complex problems in engineering, physics, and other fields. It involves dividing a complex geometry into smaller, simpler elements, and then solving the governing equations on each element.

FEM is particularly well-suited for problems involving complex geometries, nonlinearities, and multiple physical phenomena.

What is Least Squares Finite Element Method?

Least squares finite element method (LSFEM) is a variation of FEM that uses a least squares formulation to minimize the error between the

numerical solution and the exact solution.

LSFEM has several advantages over traditional FEM, including:

- Improved accuracy, especially for problems with high gradients
- Robustness, even for problems with complex geometries and material properties
- Reduced computational cost compared to traditional FEM

Key Features of "Least Squares Finite Element Methods"

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- Detailed coverage of the theory and algorithms behind LSFEM
- Step-by-step explanations with clear examples
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- Extensive references to the latest research in LSFEM

Who is this Book For?

This book is ideal for:

- Engineers and scientists who want to learn about LSFEM
- Graduate students and researchers in applied mathematics, numerical analysis, and computational mechanics

- Software developers who want to implement LSFEM algorithms

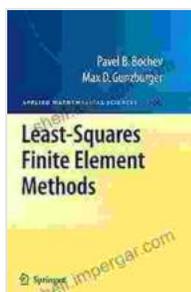
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With this comprehensive guide, you'll gain a deep understanding of the theory, algorithms, and applications of LSFEM, enabling you to solve complex engineering and scientific problems with confidence.

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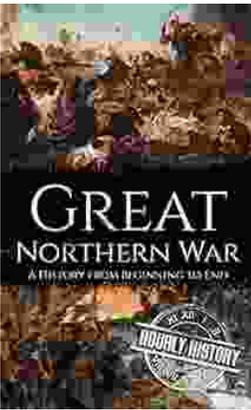
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