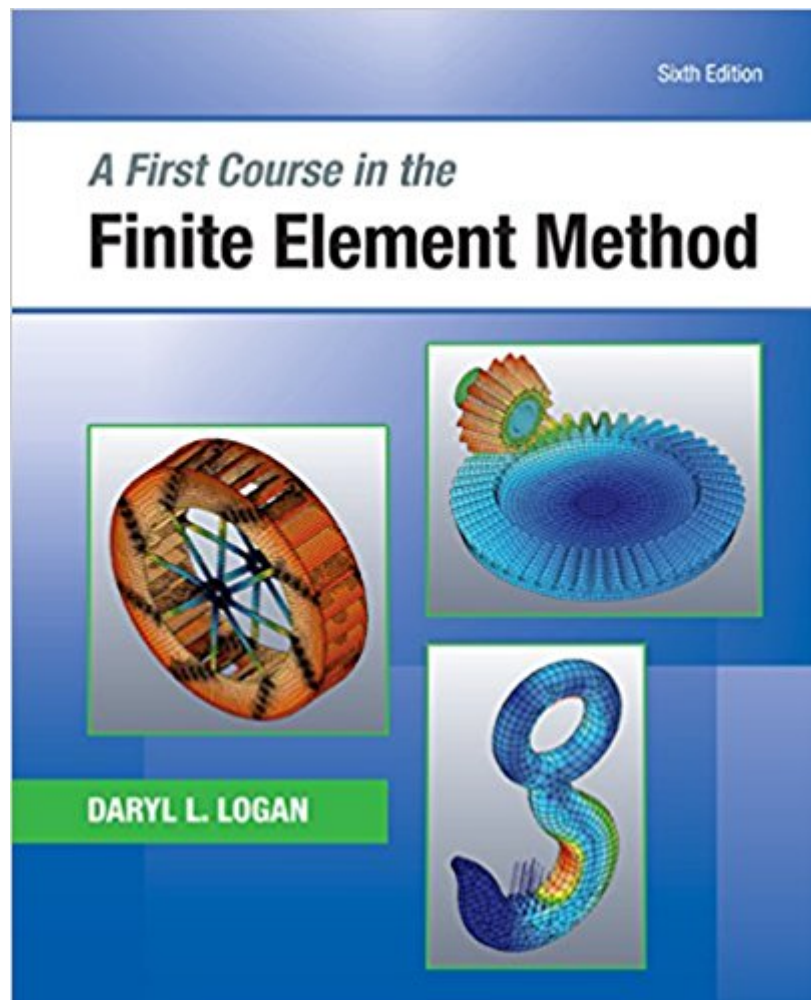


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A First Course In The Finite Element Method (Activate Learning With These NEW Titles From Engineering!)



Synopsis

Provide a simple, direct approach that highlights the basics with A FIRST COURSE IN THE FINITE ELEMENT METHOD, 6E. This unique book is written so both undergraduate and graduate students can easily comprehend the content without the usual prerequisites, such as structural analysis. The book is written primarily as a basic learning tool for the undergraduate students in civil and mechanical engineering who are primarily interested in stress analysis and heat transfer. The text offers ideal preparation for students who want to apply the finite element method as a tool to solve practical physical problems.

Book Information

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Activate Learning with Logan's A First Course in the Finite Element Method

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Examples Further Clarify Concepts Real world examples and problems enhance your

understanding and reinforce concepts in the book as they emphasize practical views of certain topics. Chapter Objectives Increase Understanding Chapter objectives help you know what

content to focus on and retain. Key summary equations help you review what you have learned.

Presentation Ideal if You are New To the Field Written as a basic learning tool for those new in civil and mechanical engineering, this edition does not presume an extensive background in structural analysis. Math is presented in a simple and straightforward manner to maximize comprehension.

Appendices Offer Additional Information Helpful appendices include basic matrix algebra (used

throughout the text), solutions methods for simultaneous equations, equations from elasticity theory, equivalent nodal forces, the principle of virtual work, and properties of structural steel and aluminum shapes.

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"It is extremely well presented for an introductory text. The author does an excellent job of getting to the underlying issues without confusing the reader with overwrought detail. The examples were very interesting and actually included advanced topics that many students would not be able to address based upon the presentation in other texts...Interesting examples that are simply explained that present complex topics." "The presentation with regard to the example problems is the best I have seen in any textbook during 40+ years I have been teaching the finite element method. The textbook must be readable and at the appropriate level of sophistication for the students who will be using it. I find that this text does an excellent job of meeting both of these criteria."

Daryl L. Logan is Professor of Mechanical Engineering at the University of Wisconsin-Platteville. He received his Ph.D. in 1972 from the University of Illinois -- Chicago. He has been a member of the American Society of Mechanical Engineers (ASME), Tau Beta Pi - National Honor Society, and the American Society for Engineering Education (ASEE). He holds a Professional Engineer's License in

the state of Indiana.

Best book in the introductory Finite Element method. I strongly recommend this book to University instructors and students.

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