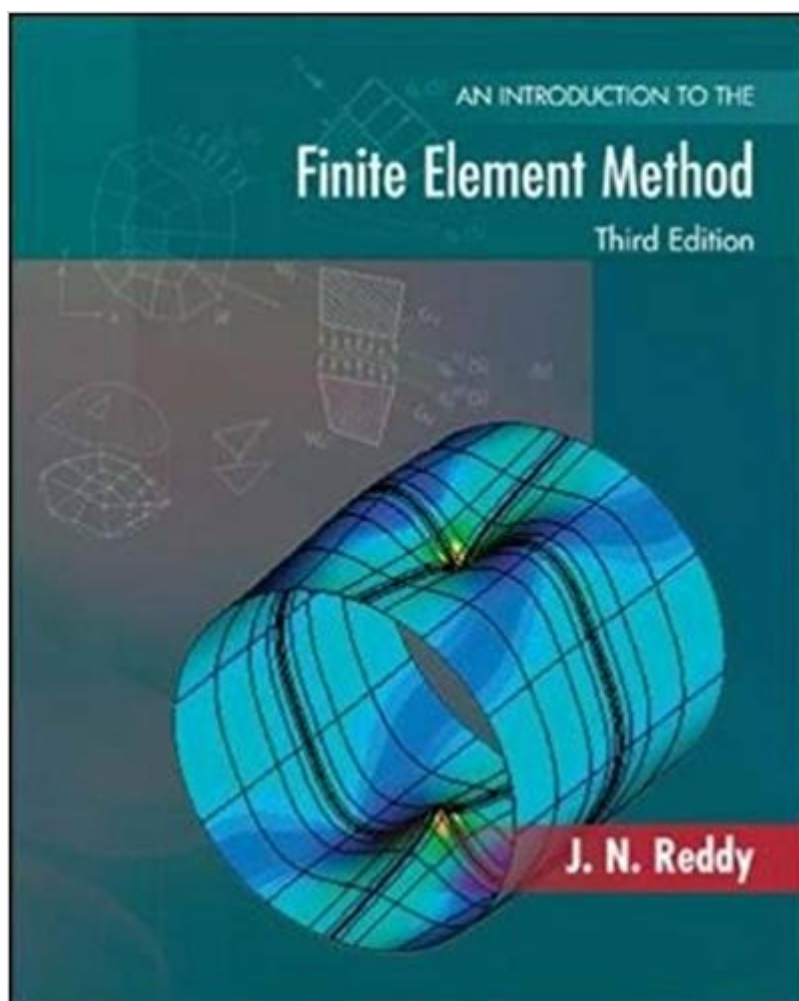


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# An Introduction To The Finite Element Method (McGraw-Hill Mechanical Engineering)



## Synopsis

J.N. Reddy's, *An Introduction to the Finite Element Method*, third edition is an update of one of the most popular FEM textbooks available. The book retains its strong conceptual approach, clearly examining the mathematical underpinnings of FEM, and providing a general approach of engineering application areas. Known for its detailed, carefully selected example problems and extensive selection of homework problems, the author has comprehensively covered a wide range of engineering areas making the book appropriate for all engineering majors, and underscores the wide range of use FEM has in the professional world. A supplementary text Web site located at <http://www.mhhe.com/reddy3e> contains password-protected solutions to end-of-chapter problems, general textbook information, supplementary chapters on the FEM1D and FEM2D computer programs, and more!

## Book Information

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## Customer Reviews

Dr Reddy is a Distinguished Professor and inaugural holder of the Oscar S. Wyatt Endowed Chair in Mechanical Engineering at Texas A&M University, College Station, Texas. Dr Reddy has been a Post-Doctoral Fellow at the University of Texas at Austin, a Research Scientist for Lockheed Missiles and Space Company, and Professor of Engineering at the University of Oklahoma from 1975 to 1980, at Virginia Polytechnic Institute and State University from 1980 to 1992, and now at Texas A&M University since 1992. Dr Reddy is the author of more than 300 journal papers and 14

textbooks on theoretical formulations and finite-element analysis of problems in solid and structural mechanics (plates and shells), composite materials, computational fluid dynamics, numerical heat transfer, and applied mathematics. He is the first recipient of the University of Oklahoma College of Engineering's Award for Outstanding Faculty Achievement in Research, the 1984 Walter L. Huber Civil Engineering Research Prize of the American Society of Civil Engineers (ASCE), the 1985 Alumni Research Award at Virginia Polytechnic Institute, and the 1992 Worcester Reed Warner Medal and 1995 Charles Russ Richards Memorial Award of the American Society of Mechanical Engineers (ASME). Dr Reddy is a Fellow of the American Academy of Mechanics (AAM), the American Society of Civil Engineers (ASCE), the ASME, the American Society of Composites (ASC), the International Association of Computational Mechanics (IACM), the U.S. Association of Computational Mechanics (USACM), the Aeronautical Society of India (ASI), and the American Society of Composite Materials. Dr Reddy serves on the editorial boards of about two-dozen journals, including Journal of Non-Linear Mechanics (ASME), International Journal for Numerical Methods in Engineering, and International Journal for Numerical Methods in Fluids. He is the Editor-in-Chief of Mechanics of Advanced Materials and Structures and serves as one of the chief editors of Internatio

This appears to be a photocopy of the book. The pages are thin and not the glossy type paper you expect in a textbook. The print is in all black and white and bleeds through the back side of the page. A replacement was ordered, but came in the exact same...very disappointing considering I paid full price for a brand new book.

The book was in great shape. I did not, however, love the class.

A superbly easy to read (and study) textbook for a beginner, this is a masterpiece of pedagogy that, despite the passage of time and the hundreds of books written on this subject, still defines the way the Finite Element Method (FEM) should be taught. If you never took a formal course or seriously studied the inner workings and fundamentals of FEM, you need to read this book.

I taught myself FEM for a project that needed it from this book. The book was well structured and clearly written such that I needed no other outside resources to figure out what to do. (The project was a mechanical simulation for part of a physics experiment I was working on.) Would recommend without hesitation to the self-studier.

thanks

Shipping was fast and quality is very good. The book is a very good reference for finite element analysis but it's not your average fundamental reference.

Excelente libro...

This is an example of a book where one has to filter through all the pointless information to try to find what is useful.

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