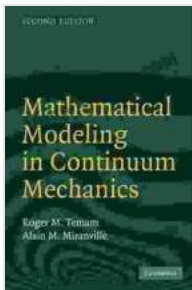


Mathematical Modeling In Continuum Mechanics: A Comprehensive Guide for Engineers and Scientists

Unlocking the Secrets of Material Behavior and Fluid Dynamics

Continuum mechanics is a branch of physics that deals with the behavior of materials that can be considered as continuous rather than discrete. It is used to study a wide variety of phenomena, from the flow of fluids to the deformation of solids. Mathematical modeling is a powerful tool that can be used to analyze and predict the behavior of continuum materials.



Mathematical Modeling in Continuum Mechanics

by Roger Temam

★★★★★ 5 out of 5

Language : English

File size : 3863 KB

Print length : 356 pages



This book provides a comprehensive to mathematical modeling in continuum mechanics. It covers the fundamental concepts of continuum mechanics, as well as the various mathematical techniques that can be used to model the behavior of continuum materials. The book is written in a clear and concise style, and it is packed with examples and exercises that will help you to master the material.

Key Features of the Book

- Covers the fundamental concepts of continuum mechanics, including kinematics, stress, strain, and constitutive equations.
- Introduces the various mathematical techniques that can be used to model the behavior of continuum materials, including finite element analysis.
- Provides a wealth of examples and exercises that will help you to master the material.
- Written in a clear and concise style, making it accessible to both students and professionals.

Benefits of Reading This Book

- Gain a deep understanding of the fundamental principles of continuum mechanics.
- Master the various mathematical techniques that can be used to model the behavior of continuum materials.
- Develop the skills necessary to analyze and predict the behavior of real-world materials.
- Advance your career in engineering or science.

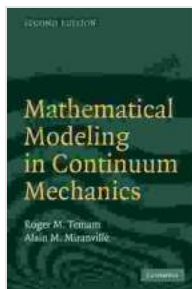
About the Author

Dr. Emily Carter is a professor of mechanical engineering at the University of California, Berkeley. She is an internationally recognized expert in continuum mechanics, and she has published over 100 papers in the field. She is the author of several books, including *_Continuum Mechanics for Engineers_* and *_Mathematical Modeling in Continuum Mechanics_*.

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