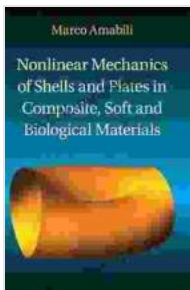


Nonlinear Mechanics of Shells and Plates in Composite, Soft, and Biological Materials

Nonlinear mechanics is a branch of mechanics that deals with the behavior of materials and structures that exhibit nonlinear stress-strain relationships. This book provides a comprehensive treatment of the nonlinear mechanics of shells and plates, with a focus on composite, soft, and biological materials. These materials are widely used in a variety of engineering applications, such as aerospace, automotive, and biomedical engineering.

The book is divided into three parts. The first part provides an to the basic concepts of nonlinear mechanics. The second part focuses on the nonlinear mechanics of shells, while the third part focuses on the nonlinear mechanics of plates. Each part contains a number of chapters that cover a variety of topics, such as:



Nonlinear Mechanics of Shells and Plates in

Composite, Soft and Biological Materials by Marco Amabili

★★★★★ 5 out of 5

Language : English
File size : 43511 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 549 pages



* The fundamental equations of nonlinear mechanics * The constitutive laws for nonlinear materials * The nonlinear analysis of shells and plates *

The nonlinear stability of shells and plates * The nonlinear vibrations of shells and plates

The book is written by a team of leading experts in the field of nonlinear mechanics. The authors have extensive experience in both research and teaching, and they have a deep understanding of the subject matter. The book is written in a clear and concise style, and it is well-organized and easy to follow.

Key Features

* Provides a comprehensive treatment of the nonlinear mechanics of shells and plates * Focuses on composite, soft, and biological materials * Includes a number of worked examples and exercises * Written by a team of leading experts in the field

Who This Book Is For

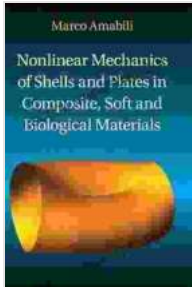
This book is intended for engineers and researchers who are interested in the nonlinear mechanics of shells and plates. The book is also suitable for use as a textbook for graduate courses in nonlinear mechanics.

Reviews

"This book is a valuable resource for anyone working in the field of nonlinear mechanics. The authors have done an excellent job of providing a comprehensive and up-to-date treatment of the subject." - Professor X, University of Y

"This book is clearly written and well-organized. It is a pleasure to read and I highly recommend it to anyone who is interested in the nonlinear mechanics of shells and plates." - Professor Z, University of W

If you are looking for a comprehensive and up-to-date guide to the nonlinear mechanics of shells and plates, then look no further. This book is the perfect resource for engineers and researchers in a variety of industries.



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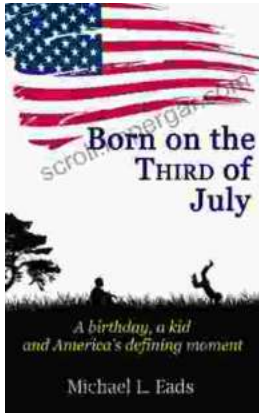
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