



Finite Elements of Nonlinear Continua (Paperback)

By J. Tinsley Oden

Dover Publications Inc., United States, 2006. Paperback. Book Condition: New. 215 x 140 mm. Language: English . Brand New Book. Geared toward undergraduate and graduate students, this text extends applications of the finite element method from linear problems in elastic structures to a broad class of practical, nonlinear problems in continuum mechanics. It treats both theory and applications from a general and unifying point of view. The text reviews the thermomechanical principles of continuous media and the properties of the finite element method, and then brings them together to produce discrete physical models of nonlinear continua. The mathematical properties of these models are analyzed, along with the numerical solution of the equations governing the discrete model. Though the theory and methods are sufficiently general to be applied to any nonlinear problem, emphasis has been placed on problems in finite elasticity, viscoelasticity, heat conduction, and thermoviscoelasticity. Problems in rarefied gas dynamics and nonlinear partial differential equations are also examined. Other topics include topological properties of finite element models, applications to linear and nonlinear boundary value problems, and discrete models of nonlinear thermomechanical behavior of dissipative media. This comprehensive text is valuable not only to students of structural analysis and continuum mechanics...



READ ONLINE [903.12 KB]

Reviews

This ebook can be worthy of a read, and much better than other. I have read and i am certain that i am going to planning to go through again once again in the future. You may like just how the writer compose this book.

-- Mr. Grant Stanton PhD

A whole new eBook with an all new standpoint. It is actually rally fascinating through reading through time period. You wont truly feel monotony at anytime of your own time (that's what catalogues are for relating to when you request me).

-- Claire Bartell

See Also



The Poor Man and His Princess (Paperback)

Mark Martinez, United States, 2015. Paperback. Book Condition: New. 216 x 140 mm. Language: English. Brand New Book ***** Print on Demand *****.The Poor Man and His Princess is a children's short story about unconditional love, and the connection made...



I Wish My Teacher Knew: How One Question Can Change Everything for Our Kids (Hardback)

The Perseus Books Group, United States, 2016. Hardback. Book Condition: New. 210 x 140 mm. Language: English . Brand New Book. One day, third-grade teacher Kyle Schwartz asked her students to fill-in-the-blank in this sentence: I wish my teacher knew . The...



Coralie (Paperback)

1st World Library, United States, 2005. Paperback. Book Condition: New. 216 x 140 mm. Language: English . Brand New Book ***** Print on Demand *****. Purchase one of 1st World Library s Classic Books and help support our free internet library of downloadable...



The Range Dwellers (Paperback)

1st World Library, United States, 2005. Paperback. Book Condition: New. 216 x 140 mm. Language: English. Brand New Book ***** Print on Demand *****. Purchase one of 1st World Library s Classic Books and help support our free internet library of downloadable...



Finally Free (Paperback)

Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. 216 x 140 mm. Language: English . Brand New Book ***** Print on Demand ******. Its been four years since Malakais death, and Kinara couldnt be happier. She and Amir are married...



The Stories Mother Nature Told Her Children (Paperback)

1st World Library, United States, 2005. Paperback. Book Condition: New. 216 x 140 mm. Language: English. Brand New Book ***** Print on Demand *****. Purchase one of 1st World Library s Classic Books and help support our free internet library of downloadable...