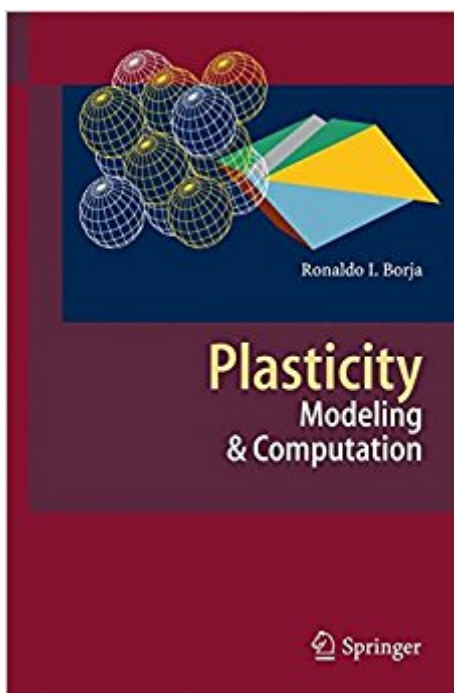The book was found

Plasticity: Modeling & Computation

Synopsis

There have been many excellent books written on the subject of plastic deformation in solids, but rarely can one find a textbook on this subject. Ã¢â ¬Å"Plasticity Modeling & ComputationÃ¢â ¬Â• is a textbook written specifically for students who want to learn the theoretical, mathematical, and computational aspects of inelastic deformation in solids. It adopts a simple narrative style that is not mathematically overbearing, and has been written to emulate a professor giving a lecture on this subject inside a classroom. Each section is written to provide a balance between the relevant equations and the explanations behind them. Where relevant, sections end with one or more exercises designed to reinforce the understanding of the Ã¢â ¬Å"lecture.Ã¢â ¬Â• Color figures enhance the presentation and make the book very pleasant to read. For professors planning to use this textbook for their classes, the contents are sufficient for Parts A and B that can be taught in sequence over a period of two semesters or quarters.

Book Information

Hardcover: 255 pages

Publisher: Springer; 2013 edition (June 15, 2013)

Language: English

ISBN-10: 364238546X

ISBN-13: 978-3642385469

Product Dimensions: 6.1 x 0.7 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 3.3 out of 5 stars   3 customer reviews

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Customer Reviews

From the book reviews:Ã¢â ¬Å"The book under review gives an introduction to plasticity equations, covering a wide range of models and applications. Ã¢â ¬Â¦ The book can certainly be used to accompany a lecture in mechanical engineering, but it can also be valuable for a mathematician to learn about the many variations of the standard models.Ã¢â ¬Â• (Ben W. Schweizer, Mathematical Reviews, March, 2015)Ã¢â ¬Å"The book gives an interesting and up-to-date overview of applied numerical methods for the computations of plastic materials of different kinds. Ã¢â ¬Â¦ it does give a good overview to researchers, enriched by an appropriate number of references for further

reading. So, we can recommend it to advanced students and professionals in this rapidly evolving branch of mechanics.Ã¢â ¬Â• (Albrecht Bertram, zbMATH, Vol. 1279, 2014)

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Good thorough coverage of plasticity and implementation of plasticity in FEM

Great book.

If you are ALREADY AN EXPERT on plasticity and thoroughly familiar with the basic concepts, then this book is OK. But if you're a beginner and plan to learn plasticity from this book, you're in for a really tough time. The links between equations and derivations are unclear at best, and usually missing. The author jumps from one equation to the next without clearly explaining how they were derived. Essentially, reading this book is like making a leap of faith. You just have to blindly believe in the equations presented without knowing clearly how they were derived in the first place.

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