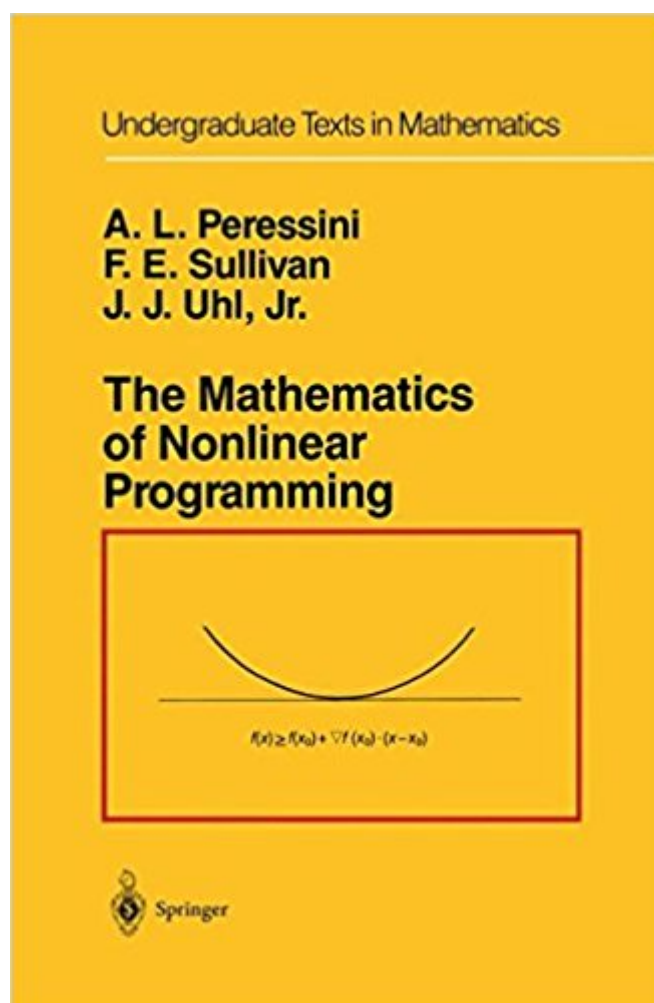


The book was found

The Mathematics Of Nonlinear Programming (Undergraduate Texts In Mathematics)



Synopsis

Nonlinear programming provides an excellent opportunity to explore an interesting variety of pure and solidly applicable mathematics, numerical analysis, and computing. This text develops some of the ideas and techniques involved in the optimization methods using calculus, leading to the study of convexity. This is followed by material on basic numerical methods, least squares, the Karush-Kuhn-Tucker theorem, penalty functions, and Lagrange multipliers. The authors have aimed their presentation at the student who has a working knowledge of matrix algebra and advanced calculus, but has had no previous exposure to optimization.

Book Information

Series: Undergraduate Texts in Mathematics

Hardcover: 276 pages

Publisher: Springer (June 17, 1993)

Language: English

ISBN-10: 0387966145

ISBN-13: 978-0387966144

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 3.4 out of 5 stars 6 customer reviews

Best Sellers Rank: #205,720 in Books (See Top 100 in Books) #23 in [Books > Science & Math > Mathematics > Applied > Linear Programming](#) #25 in [Books > Science & Math > Mathematics > Number Systems](#)

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Customer Reviews

good

It is very old book. I think the problem with material itself and no one does something new at this field! I have no idea. But I don't like it in general

I am a graduate student, working on a PhD in Optimization (nonlinear programming). This book provides an excellent first exposure to the field of nonlinear programming. It is full of "easily visualizable" 2 or 3 dimensional examples, which greatly aid in the development of strong intuition. Although the intended level of this book is the advanced undergraduate level, it serves as a very

thorough and useful companion to any graduate text. This book almost single-handedly helped me pass my qualifying exam in optimization, mostly because it "made all of the pieces fit together." I heartily recommend it to anyone interested in learning about nonlinear programming.

This book takes an unusual path to the usual results in optimization. Though refreshing in some ways, the standard results--Kuhn-Tucker conditions for non-convex programs--are not achieved until the last chapter. Little of the preceding six chapters can be skipped without ruining this development! D.M. Greig, by comparison, develops this result in her first chapter, in a book at a comparable level. With Peressini et al, you sink weeks into learning restricted convex programs; an interesting niche, but one best studied once the main results are in hand.

I purchased this book for my non-linear programming class. I wasn't too satisfied with how the material was presented, there is no systematic flow in the book. It seems as though the three authors wrote their own chapters and just decided to clue whatever they had to make this book, you get the feeling that it repeats itself. If you plan on doing any serious studying on the subject there are better books than this one. On a positive note the book has a number of examples which illustrate the concepts.

This book is a great resource for undergraduate study. It is the recommended text in our university. If you would like to learn more advanced theory, or need a grad school reference book, you are suggested to find some books else.

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