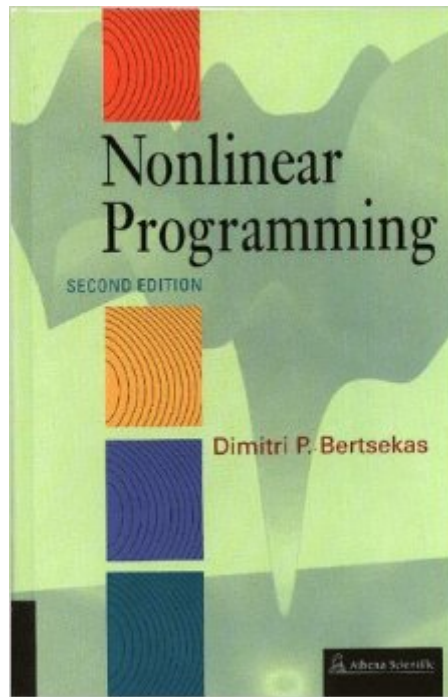**The book was found**

Nonlinear Programming

Synopsis

This extensive rigorous texbook, developed through instruction at MIT, focuses on nonlinear and other types of optimization: iterative algorithms for constrained and unconstrained optimization, Lagrange multipliers and duality, large scale problems, and the interface between continuous and discrete optimization. Among its special features, the book: 1) provides extensive coverage of iterative optimization methods within a unifying framework 2) provides a detailed treatment of interior point methods for linear programming 3) covers in depth duality theory from both a variational and a geometrical/convex analysis point of view 4) includes much new material on a number of topics, such as neural network training, discrete-time optimal control, and large-scale optimization 5) includes a large number of examples and exercises detailed solutions of many of which are posted on the internet Much supplementary/support material can be found at the book's web page

Book Information

Hardcover: 780 pages

Publisher: Athena Scientific; 2nd edition (September 1, 1999)

Language: English

ISBN-10: 1886529000

ISBN-13: 978-1886529007

Product Dimensions: 1.5 x 6.2 x 9 inches

Shipping Weight: 2.7 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars See all reviews (10 customer reviews)

Best Sellers Rank: #393,622 in Books (See Top 100 in Books)   #45 in Books > Science & Math > Mathematics > Applied > Linear Programming   #3773 in Books > Textbooks > Science & Mathematics > Mathematics

Customer Reviews

The study of optimization is not an easy task. Several books, different levels, some books only addressing theory, some books emphasizing algorithms and a few addressing modelling.When you read scientific papers, eventually you will convince yourself of the necessity to know some more "advanced" results (Lagrange, Duality and even non-differentiable optimization) that are not well explained on introductory operational research books.Up to date, with solutions avaliable for download at Bertsekas' homepage.

This is a MUST if you are doing research in optimization or need to study the details of optimization theory. It explains both theory and algorithm quite well with many exercises worth doing. Strongly recommended.

A very thorough book about the details and best book i've ever known for optimization. If you want to how to deduce the algorithm, i would recommend it.

This book explains the duality theory very well. It also covers various numerical methods. People who never have background in optimization can start the subject from this book. The exercises were collected from recent papers, so they are common problems that you might encounter in your research.

Reference book of my lecture! Highly recommended by my teacher in lecture nonlinear programming. Splendid and rigorous proof are what I need

Programming #8:C Programming Success in a Day & Android Programming In a Day! (C Programming, C++programming, C++ programming language, Android , Android Programming, Android Games) Programming #57: C++ Programming Professional Made Easy & Android Programming in a Day (C++ Programming, C++ Language, C++for beginners, C++, Programming ... Programming, Android, C, C Programming) Programming #45: Python Programming Professional Made Easy & Android Programming In a Day! (Python Programming, Python Language, Python for beginners, ... Programming Languages, Android Programming) Global Propagation of Regular Nonlinear Hyperbolic Waves (Progress in Nonlinear Differential Equations and Their Applications, No. 76) Programming: Computer Programming for Beginners: Learn the Basics of Java, SQL & C++ - 3. Edition (Coding, C Programming, Java Programming, SQL Programming, JavaScript, Python, PHP) Raspberry Pi 2: Raspberry Pi 2 Programming Made Easy (Raspberry Pi, Android Programming, Programming, Linux, Unix, C Programming, C+ Programming) Android: Programming in a Day! The Power Guide for Beginners In Android App Programming (Android, Android Programming, App Development, Android App Development, ... App Programming, Rails, Ruby Programming) DOS: Programming Success in a Day: Beginners guide to fast, easy and efficient learning of DOS programming (DOS, ADA, Programming, DOS Programming, ADA ... LINUX, RPG, ADA Programming, Android, JAVA) ASP.NET: Programming success in a day: Beginners guide to fast, easy and efficient learning of ASP.NET programming (ASP.NET, ASP.NET

Programming, ASP.NET ... ADA, Web Programming, Programming) C#: Programming Success in a Day: Beginners guide to fast, easy and efficient learning of C# programming (C#, C# Programming, C++ Programming, C++, C, C Programming, C# Language, C# Guide, C# Coding) FORTRAN Programming success in a day:Beginners guide to fast, easy and efficient learning of FORTRAN programming (Fortran, Css, C++, C, C programming, ... Programming, MYSQL, SQL Programming) Prolog Programming; Success in a Day: Beginners Guide to Fast, Easy and Efficient Learning of Prolog Programming (Prolog, Prolog Programming, Prolog Logic, ... Programming, Programming Code, Java) R Programming: Learn R Programming In A DAY! - The Ultimate Crash Course to Learning the Basics of R Programming Language In No Time (R, R Programming, ... Course, R Programming Development Book 1) Parallel Programming: Success in a Day: Beginners' Guide to Fast, Easy, and Efficient Learning of Parallel Programming (Parallel Programming, Programming, ... C++ Programming, Multiprocessor, MPI) MYSQL Programming Professional Made Easy 2nd Edition: Expert MYSQL Programming Language Success in a Day for any Computer User! (MYSQL, Android programming, ... JavaScript, Programming, Computer Software) Programming Raspberry Pi 3: Getting Started With Python (Programming Raspberry Pi 3, Raspberry Pi 3 User Guide, Python Programming, Raspberry Pi 3 with Python Programming) VBScript: Programming Success in a Day: Beginner's Guide to Fast, Easy and Efficient Learning of VBScript Programming (VBScript, ADA, ASP.NET, C#, ADA ... ASP.NET Programming, Programming, C++, C) Apps: Mobile App Trends in 2015 (iOS, Xcode Programming, App Development, iOS App Development, App Programming, Swift, Without Coding) ((Android, Android ... App Programming, Rails, Ruby Programming)) XML Programming Success in a Day: Beginner's Guide to Fast, Easy, and Efficient Learning of XML Programming (XML, XML Programming, Programming, XML Guide, ... XSL, DTD's, Schemas, HTML5, JavaScript) Nonlinear Programming