The book was found

Applied Optimization Methods For Wireless Networks

Applied Optimization Methods for Wireless Networks

Y. Thomas Hou
Yi Shi
Hanif D. Sherali

CAMBRIDGE
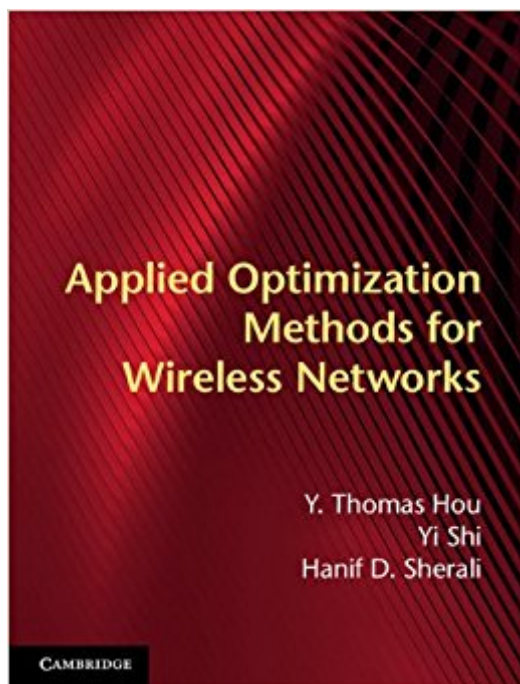
Synopsis

Written in a unique style, this book is a valuable resource for faculty, graduate students, and researchers in the communications and networking area whose work interfaces with optimization. It teaches you how various optimization methods can be applied to solve complex problems in wireless networks. Each chapter reviews a specific optimization method and then demonstrates how to apply the theory in practice through a detailed case study taken from state-of-the-art research. You will learn various tips and step-by-step instructions for developing optimization models, reformulations, and transformations, particularly in the context of cross-layer optimization problems in wireless networks involving flow routing (network layer), scheduling (link layer), and power control (physical layer). Throughout, a combination of techniques from both operations research and computer science disciplines provides a holistic treatment of optimization methods and their applications. Each chapter includes homework exercises, with PowerPoint slides and a solutions manual for instructors available online.

Book Information

File Size: 10122 KB

Print Length: 360 pages

Simultaneous Device Usage: Up to 4 simultaneous devices, per publisher limits

Publisher: Cambridge University Press; 1 edition (March 31, 2014)

Publication Date: April 2, 2014

Sold by: Â Digital Services LLC

Language: English

ASIN: B00I0UND1U

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,393,795 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #89 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Insecticides & Pesticides #380 inÂ Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Signal Processing #1555 inÂ Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs > Networks

Customer Reviews

An excellent book! I have this book and am compelled to write a review after I read the first review. It is true that the case study in each chapter came from the authorsÃ¢Â Â™ papers. But the authors have tons of papers. There are also tons of papers by other authors. Which paper should I read? The book is the only one that gives a classification of different optimization methods and shows how to use each method to solve a real problem (through a case study). This makes the book very useful.

It is a wonderful book. Although each chapter of this book is from the author's papers, this book firstly gives a complete and detailed description of optimization approaches and show researchers how to utilize them to solve the optimization problems formulated in their research. It is very helpful for graduates to simplify their mathematical solving process.

The book is very interesting, professional and useful.

This is a good book.

Better off reading the authors' research articles. This is simply a compilation of articles by the authors. Little time is spent on actually teaching the optimization techniques used to solve example problems. The general structure is: (i) here's an optimization method, with emphasis on 'what' rather than 'how', followed by (ii) here's my 'paper' that uses this method.

Download to continue reading...

Hacking: Wireless Hacking, How to Hack Wireless Networks, A Step-by-Step Guide for Beginners (How to Hack, Wireless Hacking, Penetration Testing, Social ... Security, Computer Hacking, Kali Linux) Designing and Deploying 802.11 Wireless Networks: A Practical Guide to Implementing 802.11n and 802.11ac Wireless Networks For Enterprise-Based Applications (2nd Edition) (Networking Technology) Applied Optimization Methods for Wireless Networks Wireless Hacking: How to Hack Wireless Networks (Hacking, How to Hack, Penetration testing, Basic Security, Kali Linux book Book 1) Engineering Design Optimization using Calculus Level Methods: A Casebook Approach: Math Modeling, Simulation, & Optimization Computer Forensics: Investigating File and Operating Systems, Wireless Networks, and Storage (CHFI), 2nd Edition (Computer Hacking Forensic Investigator) Building Wireless Sensor Networks: with ZigBee, XBee, Arduino, and

Processing Numerical Methods for Unconstrained Optimization and Nonlinear Equations (Classics in Applied Mathematics) The Little Book on Digital Marketing SEO - Search Engine Optimization: Tips and tricks for keyword research in SEO or Search Engine Optimization Introduction to Linear Optimization (Athena Scientific Series in Optimization and Neural Computation, 6) Pyomo â • Optimization Modeling in Python (Springer Optimization and Its Applications) Survey Research Methods (Applied Social Research Methods) Case Study Research: Design and Methods (Applied Social Research Methods) Bacteriophages: Methods and Protocols, Volume 2: Molecular and Applied Aspects (Methods in Molecular Biology) Research Methods in Applied Linguistics: A Practical Resource (Research Methods in Linguistics) Mathematical Optimization and Economic Theory (Classics in Applied Mathematics) Continuous-time Stochastic Control and Optimization with Financial Applications (Stochastic Modelling and Applied Probability) Deterministic Operations Research: Models and Methods in Linear Optimization Optimization by Vector Space Methods The Technology of Artificial Lift Methods, Vol. 4: Production Optimization of Oil and Gas Wells by Nodal Systems Analysis