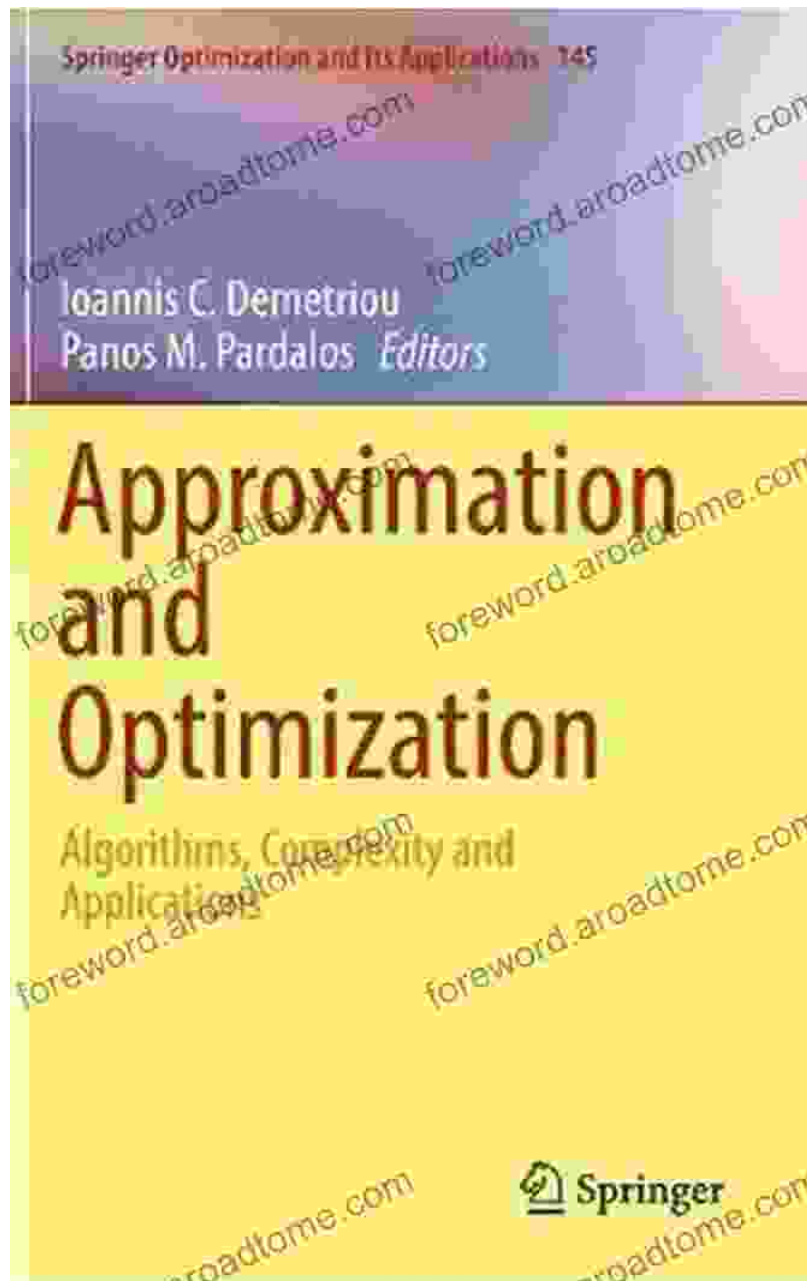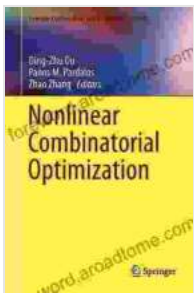# Nonlinear Combinatorial Optimization: A Comprehensive Guide for Solving Complex Problems

Nonlinear combinatorial optimization (NCO) is a branch of optimization that deals with the minimization or maximization of a nonlinear objective

function subject to a set of combinatorial constraints. NCO problems arise in a wide variety of real-world applications, including scheduling, routing, network design, and portfolio optimization.

Springer Optimization And Its Applications: Nonlinear Combinatorial Optimization provides a comprehensive overview of the state-of-the-art methods and techniques for solving NCO problems. Written by leading experts in the field, this book covers a wide range of topics, including:

Nonlinear Combinatorial Optimization (Springer Optimization and Its Applications Book 147)

by Panos M. Pardalos

★★★★★ 5 out of 5

Language : English
File size : 5829 KB
Print length : 323 pages

- Problem formulation and modeling

- Linearization and relaxation techniques

- Branch-and-bound algorithms

- Heuristic and metaheuristic algorithms

- Global optimization methods

- Applications in various domains

What's Inside the Book?

Springer Optimization And Its Applications: Nonlinear Combinatorial Optimization is a must-read for anyone who wants to learn about the latest advances in NCO. The book is divided into three parts:

1. **Part I: Foundations** introduces the basic concepts of NCO and provides an overview of the most important solution methods.

2. **Part II: Advanced Topics** covers more advanced topics, such as global optimization, constraint programming, and parallel algorithms.

3. **Part III: Applications** presents a variety of real-world applications of NCO, including scheduling, routing, network design, and portfolio optimization.

The book is packed with examples and exercises, making it an ideal resource for students, researchers, and practitioners alike.

Benefits of Reading This Book

Reading Springer Optimization And Its Applications: Nonlinear Combinatorial Optimization will provide you with the following benefits:

- A comprehensive understanding of the state-of-the-art methods and techniques for solving NCO problems

- The ability to formulate and solve NCO problems in a variety of real-world applications

- An in-depth knowledge of the latest advances in NCO research

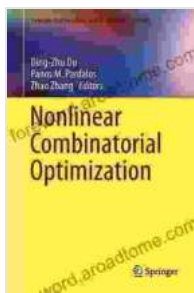- Access to a wealth of examples and exercises

Who Should Read This Book?

Springer Optimization And Its Applications: Nonlinear Combinatorial Optimization is a valuable resource for the following audiences:

- Researchers in the field of optimization

- Practitioners who use NCO to solve real-world problems

- Students who are interested in learning about NCO

Free Download Your Copy Today!

Springer Optimization And Its Applications: Nonlinear Combinatorial Optimization is available now in hardcover, paperback, and e-book formats. Free Download your copy today and start unlocking the power of NCO!

Nonlinear Combinatorial Optimization (Springer Optimization and Its Applications Book 147)

by Panos M. Pardalos

★★★★★ 5 out of 5

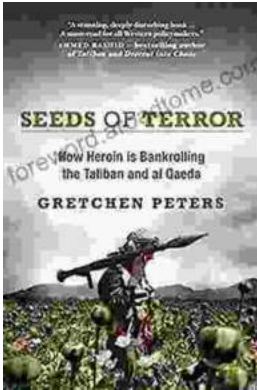Language : English
File size : 5829 KB
Print length : 323 pages

Unveiling the Extraordinary Life of It Israel Birthday Ellen Dietrick

A Captivating Narrative of Resilience, Determination, and Triumph Prepare to be inspired by the remarkable journey of It Israel Birthday

Ellen Dietrick, a woman whose...

How Drugs, Thugs, and Crime Reshape the Afghan War: An Unsettling Reality

The war in Afghanistan, a conflict that has spanned decades, has taken on a new and unsettling dimension in recent years: the rise of a powerful...