



Introduction to Applied Optimization (Springer Optimization and Its Applications) (Volume 22)

By Urmila Diwekar



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This book presents a view of optimization independent of any discipline. This new edition contains two new chapters, one on global optimization and one of a real-world case study that uses the principles from each chapter in the book.

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Editorial Review

Review

From reviews:

"The book is well written and the presentation is rigorous and self-contained. The book will be of interest to researchers in various fields as well as undergraduate and graduate students in engineering sciences, management science, and decision science."

?I. M. Stancu-Minasian, *Zentralblatt MATH*, Vol. 1043 (18), 2004

"Urmila Diwekar's book on applied optimization is one of the few books on the subject that combines impressive breadth of coverage with delightful readability. In her exposition of concepts and algorithms in the major areas of optimization, she always goes to the heart of the matter and illustrates her explanations with simple diagrams and numerical examples. Graduate and undergraduate students, who constitute part of the target audience, should find this a very useful book."

?Jamshed A. Modi, *Interfaces*, Vol. 36 (1), 2006

"The book is well-written, and . . . it covers fairly significant territory, in a relatively slim volume. This work is definitely a welcome addition to the existing optimization literature, given its emphasis on modeling and solution practice, as well as its 'user-friendly' style of exposition."

?János D. Pintér, *European Journal of Operations Research*, Vol. 177, 2007

From the reviews of the second edition:

"Diwekar's book covers a wide variety of optimization topics, including some recent developments, in under 300 pages. . . . The book would be suitable as a textbook; it contains numerous exercises and a solutions manual is available." (John D. Cook, MAA Online, February, 2009)

From the Back Cover

This text presents a multi-disciplined view of optimization, providing students and researchers with a thorough examination of algorithms, methods, and tools from diverse areas of optimization without introducing excessive theoretical detail. This second edition includes additional topics, including global optimization and a real-world case study using important concepts from each chapter.

Key Features:

- Provides well-written self-contained chapters, including problem sets and exercises, making it ideal for the classroom setting;
- Introduces applied optimization to the hazardous waste blending problem;
- Explores linear programming, nonlinear programming, discrete optimization, global optimization, optimization under uncertainty, multi-objective optimization, optimal control and stochastic optimal control;
- Includes an extensive bibliography at the end of each chapter and an index;

- GAMS files of case studies for Chapters 2, 3, 4, 5, and 7 are linked to <http://www.springer.com/math/book/978-0-387-76634-8>;
- Solutions manual available upon adoptions.

Introduction to Applied Optimization is intended for advanced undergraduate and graduate students and will benefit scientists from diverse areas, including engineers.

Users Review

From reader reviews:

Robert Music:

People live in this new morning of lifestyle always aim to and must have the time or they will get large amount of stress from both way of life and work. So , when we ask do people have time, we will say absolutely of course. People is human not just a robot. Then we consult again, what kind of activity do you possess when the spare time coming to an individual of course your answer will probably unlimited right. Then ever try this one, reading textbooks. It can be your alternative throughout spending your spare time, often the book you have read is definitely Introduction to Applied Optimization (Springer Optimization and Its Applications) (Volume 22).

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