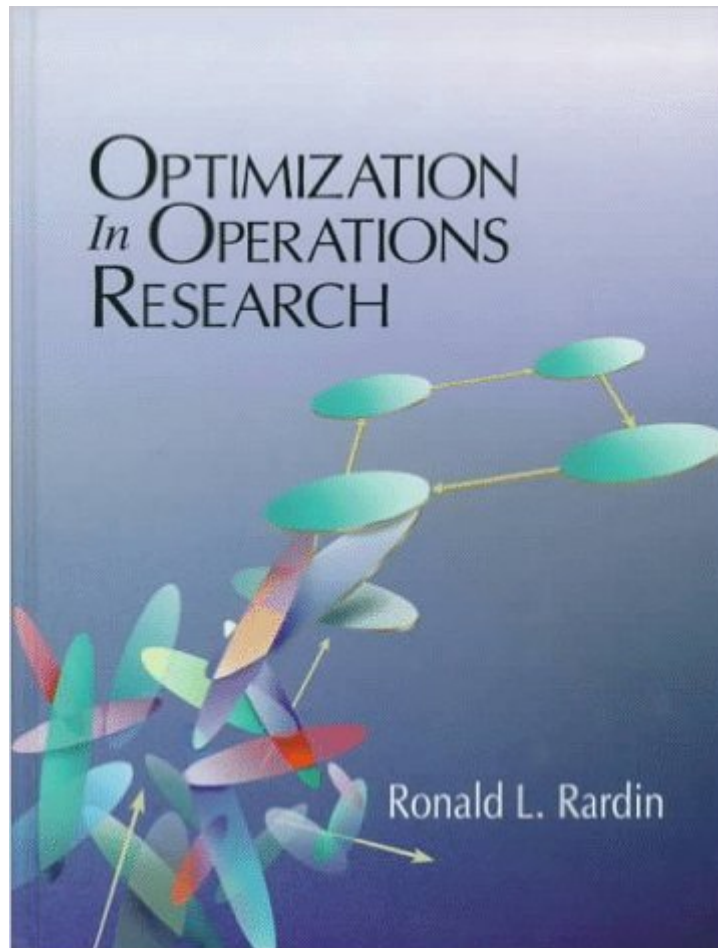


The book was found

# Optimization In Operations Research



## Synopsis

This book is specifically designed to change the way deterministic optimization is taught to introductory students. Toward this end, it exposes students to the broad scope of the topic, reinforces the basic principles, sparks students' enthusiasm about the field, provides tools of immediate relevance and develops the skills necessary to use those tools.

## Book Information

Paperback: 919 pages

Publisher: Pearson; 1 edition (August 15, 1997)

Language: English

ISBN-10: 0023984155

ISBN-13: 978-0023984150

Product Dimensions: 7 x 1.9 x 9 inches

Shipping Weight: 3.3 pounds

Average Customer Review: 4.3 out of 5 stars [See all reviews](#) (27 customer reviews)

Best Sellers Rank: #83,848 in Books (See Top 100 in Books) #2 in [Books > Science & Math > Mathematics > Applied > Linear Programming](#) #6 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Production, Operation & Management](#) #41 in [Books > Textbooks > Engineering > Industrial Engineering](#)

## Customer Reviews

The "Search inside this book" feature was not available for this book when this review was published. Hope it helps.

Table of Contents

1. Problem Solving with Mathematical Models
2. Deterministic Optimization Models in Operations Research
3. Improving Search
4. Linear Programming Models
5. Simplex Search for Linear Programming
6. Interior Point Methods for Linear Programming
7. Duality and Sensitivity in Linear Programming
9. Shortest Path and Discrete Dynamic Programming
10. Network Flows
11. Discrete Optimization Models
12. Discrete Optimization Methods
13. Unconstrained Nonlinear Programming
14. Constrained Nonlinear Programming

If you need more information, Professor Rardin (Purdue University) maintains a website that can be easily located using any web search tool.

I thought there was only one best complete OR book is Hillier and Lieberman (H&L) until I got Rardin's book. Rardin presents the OR in different approach than H&L. The model building part is a little bit better than H&L, but the real meat is the fundamental of optimization. Search technique is

well presented from the ground-up. This book can be served as the first book in OR if you're new to OR or the companion book if you know OR or even the first book in optimization in case you don't care to know OR.

I had absolutely no clue about optimization before I read this book. This book not only helped me overcome my diffidence, but also provided me with a very thorough understanding of the basics of the subject. It is extremely difficult to criticize this book in any way. The language is plain English, not the technical jargon which other "introductory" books use. The book does not assume that the reader has a thorough understanding of linear algebra. Only a course in differential and integral calculus will do. The book provides several primers on a lot of topics- matrices, analysis, vectors etc., so that you do not have to interrupt your optimization studies and digress into these subjects. There are three full chapters where the author provides real-life examples of mathematical modeling. Again, these are built up step-by-step, and not shoved down your throat. The different approach to the Simplex Method is more intuitive than the traditional approach and more logical. The basic discussions on integer programming and non-linear programming are also worth mentioning. The numerous exercises and the presence of solutions to a number of them in the end make the text even more helpful. The only somewhat weak point of the text is the chapter on interior point methods, where the book only provides the formulae and states that the derivations are "beyond the scope of the book". But, this is negligible and I recommend the book wholeheartedly

In my work I needed to find the shortest path from a single point to a set of points. This book really helped me to find the suitable method: the Dijkstra algorithm. I began reading Chapter 9, which is "Shortest Paths and Discrete Dynamic Programming". The material is presented clearly and with relevant and adequate variety of examples. I haven't read the other chapters since they are not required for my work at this moment and I don't have ample time to make a full review; however, I can say this: My many years in research in several fields have often put me in a position of transferring mathematical algorithms in one field to another or to search for an efficient one. I frequently get a limited time period to do literature search and I usually page-read many books. This is one of the rare books which are easy to read and comprehend. I thank and congratulate the author for doing a wonderful service.

Review after 2 years of using this book: AMAZING BOOK. There has never been a better book (and probably never will be) in explaining OR. Previous Review upon purchase: If you are taking a

graduate or an undergraduate course in OR, this book is a must! I have not seen ANY book able to present OR with such simple, direct examples and WITHOUT sacrificing theory. This is the best written textbook I have ever read. When I compare it with the hundreds of dollars I spend on badly written books, even as a PG (poor graduate) student I would gladly pay twice of what this book is priced at.

As far as regards content, this is a fine book. It's a textbook, and it does that job. I am commenting on the horrible cheap production: the publisher has effectively made a photocopy of the hardcover, and is selling it for \$100. The cover is flimsy paper, scuffs and bends easily; the text on the pages is askew; and the contrast in the charts and shading is awful.

Prof. Rardin's Optimization in OR is a great book. However the binding for the book does not do its justice as it is sold as a paperback at the .com. The binding of my copy quickly fell apart. With the kind of the price the book demands and its 900+pages size, it should be a hardback binding.

Rardin was the first book I used for OR and I keep a copy in my personal library. It offers a series of examples that are followed up throughout the book, chapter by chapter, to provide insight into the application of mathematics to real world problems. By building the level of complexity, on an ongoing basis through the use of specific examples, Rardin shows the extremely practical side to why Operations Research is such a fundamental use of applied mathematics. The book is easy to read and should easily meet the needs of any upperlevel undergraduate course in Operations Research.

[Download to continue reading...](#)

Optimization in Operations Research (2nd Edition) Optimization in Operations Research Supply Chain Network Design: Applying Optimization and Analytics to the Global Supply Chain (FT Press Operations Management) Water Treatment WSO: Principles and Practices of Water Supply Operations Volume 1 (Water Supply Operations Series) Maingot's Abdominal Operations, 12th Edition (Zinner, Maingot's Abdominal Operations) Maingot's Abdominal Operations (Zinner, Maingot's Abdominal Operations) Keyword Research for Search Engine Optimization (2016): Find SEO Keywords That Turns Into a Profitable Money Machine Hydropower Economics (International Series in Operations Research & Management Science) Integrating Renewables in Electricity Markets: Operational Problems: 205 (International Series in Operations Research & Management Science) The Theory and Practice of Revenue Management (International Series in Operations Research & Management Science) Schaum's Outline of Operations Research (Schaum's Outlines)

Business Research Sources: A Reference Navigator (Irwin/McGraw Hill Series, Operations and Decision Sciences) Quantitative Health Risk Analysis Methods: Modeling the Human Health Impacts of Antibiotics Used in Food Animals (International Series in Operations Research & Management Science) Quantitative Health Risk Analysis Methods: 82 (International Series in Operations Research & Management Science) Practical Decision Making: An Introduction to the Analytic Hierarchy Process (AHP) Using Super Decisions V2 (SpringerBriefs in Operations Research) Introduction to Stochastic Programming (Springer Series in Operations Research and Financial Engineering) Stochastic Models, Volume 2 (Handbooks in Operations Research and Management Science) Optimization for Machine Learning (Neural Information Processing series) Oracle SQL Performance Tuning and Optimization: Its all about the Cardinalities Fireworks Algorithm: A Novel Swarm Intelligence Optimization Method

[Dmca](#)