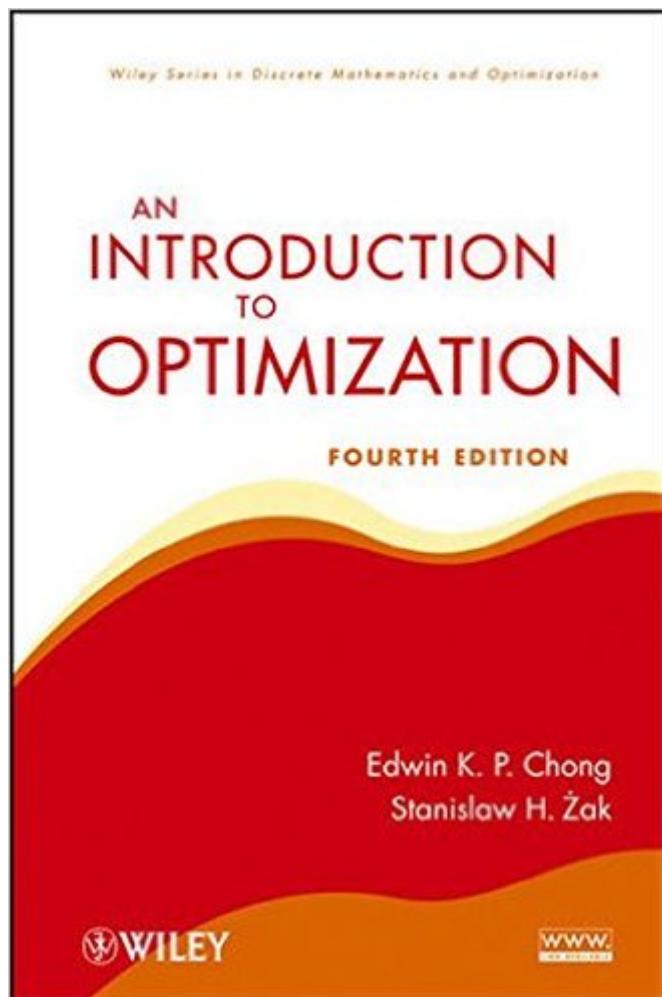


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# An Introduction To Optimization



## Synopsis

Praise for the Third Edition "... guides and leads the reader through the learning path . . . [e]xamples are stated very clearly and the results are presented with attention to detail.""MAA Reviews" Fully updated to reflect new developments in the field, the Fourth Edition of *Introduction to Optimization* fills the need for accessible treatment of optimization theory and methods with an emphasis on engineering design. Basic definitions and notations are provided in addition to the related fundamental background for linear algebra, geometry, and calculus. This new edition explores the essential topics of unconstrained optimization problems, linear programming problems, and nonlinear constrained optimization. The authors also present an optimization perspective on global search methods and include discussions on genetic algorithms, particle swarm optimization, and the simulated annealing algorithm. Featuring an elementary introduction to artificial neural networks, convex optimization, and multi-objective optimization, the Fourth Edition also offers: A new chapter on integer programming  Expanded coverage of one-dimensional methods  Updated and expanded sections on linear matrix inequalities  Numerous new exercises at the end of each chapter  MATLAB exercises and drill problems to reinforce the discussed theory and algorithms  Numerous diagrams and figures that complement the written presentation of key concepts  MATLAB M-files for implementation of the discussed theory and algorithms (available via the book's website)  *Introduction to Optimization*, Fourth Edition is an ideal textbook for courses on optimization theory and methods. In addition, the book is a useful reference for professionals in mathematics, operations research, electrical engineering, economics, statistics, and business.

## Book Information

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## Customer Reviews

This is the first semester I have taught from this text; previously I used the book by Nash & Sofer. I started with Part III in the Chong & Zak text (on Linear Programming). My first impression is that Chong & Zak could use more examples - the material on LP in Nash & Sofer seems better to me. I've looked at Part II in C & Z on unconstrained optimization and that might be better than the similar material in N & S, but I have not yet covered this material in class so I may change my opinion after doing so.

As a book meant to introduce optimization, I personally felt it could have used more examples. The book definitely touches on many subjects, which is great, and I understand the value of proofs. But for someone trying to pick up the material, I just feel walking through examples step by step is one of the best ways to explain how and why something works. Not just walls of text and general equations. In addition, I don't think I'm alone in being a visual person. Even if the figures were merely tables showing the probabilities of a two person game, I could have garnered so much more information from figures specific to an example problem. Also, some sections seem to skip examples completely, which I just don't find acceptable in an introductory text.

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