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Many of our daily-life problems can be written in the form of an optimization problem. Therefore, solution methods are needed to solve such problems. Due to the complexity of the problems, it is not always easy to find the exact solution. However, approximate solutions can be found. The theory of the best approximation is applicable in a variety of problems arising in nonlinear functional analysis and optimization. This book highlights interesting aspects of nonlinear analysis and optimization together with many applications in the areas of physical and social sciences including engineering. It is immensely helpful for young graduates and researchers who are pursuing research in this field, as it provides abundant research resources for researchers and post-doctoral fellows. This will be a valuable addition to the library of anyone who works in the field of applied mathematics, economics and engineering.

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From Birkhäuser Bibliography

- Sales Rank: #6018266 in Books
- Published on: 2014-06-05
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .88" w x 6.14" l, 1.53 pounds
- Binding: Hardcover
- 352 pages

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Review

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“This is a collection of survey papers on some topics in nonlinear functional analysis—best approximation, optimization, fixed point theory, monotone operators and variational inequalities, equilibrium problems. ... Containing well written survey papers by renown experts, the volume will provide researchers in nonlinear analysis and related domains to a quick introduction and, at the same time, with a state-of-the-art in several very active area of current investigation.” (S. Cobza?, *Studia Universitatis Babe?-Bolyai, Mathematica*, Vol. 59 (3), 2014)

From the Back Cover

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