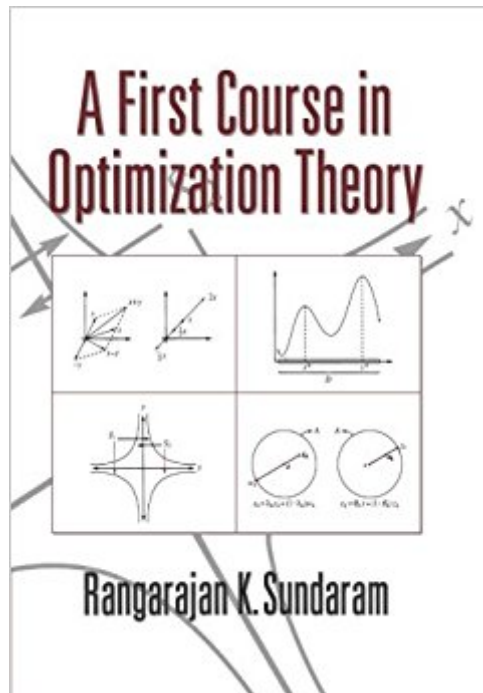




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A First Course In Optimization Theory



Synopsis

This book introduces students to optimization theory and its use in economics and allied disciplines. The first of its three parts examines the existence of solutions to optimization problems in R^n , and how these solutions may be identified. The second part explores how solutions to optimization problems change with changes in the underlying parameters, and the last part provides an extensive description of the fundamental principles of finite- and infinite-horizon dynamic programming. A preliminary chapter and three appendices are designed to keep the book mathematically self-contained.

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Divided into three separate parts, this book introduces students to optimization theory and its use in economics and allied disciplines. A preliminary chapter and three appendices are designed to keep the book mathematically self-contained.

nice book

One of the probes that I have found with Kindle format is the size of the equations. The equations

are too small to be readable. The equations size does not increase in size as text size increases.

Has some typos

A lot of the material here is subsumed in other texts. It also goes into more detail than you need for 1st year PhD courses.

glaring mistakes all over the book. I've found at least 3 wrong definitions of convexity in the book. some contradicting within a paragraph. wow do some proof reading? along with wrong definition for implicit function theorem in chapter 1 - missing minus sign in front. and look at page where they talk about epigraph and subgraph. and ... you get the point. I can't believe it has such basic definitions wrong. not to mention uncommon notations used for some analysis... not happy with the book. for optimization stick with Stephen Boyd, Bertsekas, or Luenberger. and for applying optimization tech to economics get Simon, and Blume. 2 stars might not seem a big deal to you but look at my rating history. I rarely go under 4 stars. stay away from this book. although if the author fixes those deluge of stupid mathematical mistakes this book has a potential to be 5 stars.

If you are interested in learning optimization, you need this book.

If you're a graduate student in economics, or perhaps computer science, buy this book as soon as possible. It will make your life much, much easier. Lagrangeans and Kuhn-Tucker optimization are the bread and butter of microeconomics, and yet few professors will bother to go into them in detail. This book succeeds in making these abstract mathematical procedures feel tangible and intuitive, defining them rigorously, explaining their usefulness and providing examples. This is one of very few books that I keep on my shelf for reference. For a broader (and equally necessary) introduction to the math that you'll need for advanced study in economics, I recommend Simon and Blume's *Mathematics for Economists*.

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