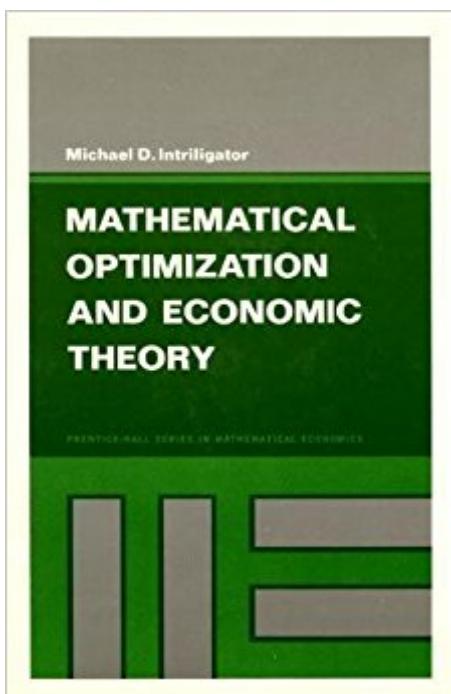


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# Mathematical Optimization And Economic Theory (Prentice-Hall Series In Mathematical Economics)



## **Synopsis**

Mathematical Optimization and Economic Theory provides a self-contained introduction to and survey of mathematical programming and control techniques and their applications to static and dynamic problems in economics, respectively. It is distinctive in showing the unity of the various approaches to solving problems of constrained optimization that all stem back directly or indirectly to the method of Lagrange multipliers. In the 30 years since its initial publication, there have been many more applications of these mathematical techniques in economics, as well as some advances in the mathematics of programming and control. Nevertheless, the basic techniques remain the same today as when the book was originally published. Thus, it continues to be useful not only to its original audience of advanced undergraduate and graduate students in economics, but also to mathematicians and other researchers who are interested in learning about the applications of the mathematics of optimization to economics. --This text refers to an out of print or unavailable edition of this title.

## **Book Information**

Series: Prentice-Hall series in mathematical economics

Hardcover: 508 pages

Publisher: Prentice Hall College Div; 1st edition (June 1971)

Language: English

ISBN-10: 0135617537

ISBN-13: 978-0135617533

Product Dimensions: 1 x 6.2 x 9.5 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 2 customer reviews

Best Sellers Rank: #582,147 in Books (See Top 100 in Books) #79 in Books > Science & Math > Mathematics > Applied > Linear Programming #274 in Books > Textbooks > Business & Finance > Economics > Economic Theory #984 in Books > Business & Money > Economics > Theory

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This classic book provides a self-contained introduction to and survey of mathematical programming and control techniques and their applications to static and dynamic problems in economics. Although it is some time since the book was first published, it continues to be useful to advanced undergraduate and graduate students. --This text refers to an out of print or unavailable edition of

this title.

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Well organized, nicely written without harsh mathematical language but with deep mathematical thought and logic. Excellent book. I highly recommend it as an overview or refresher for an intermediate user.

This book covers static and dynamic optimization theory. The text is presented in matrix notation, which makes it difficult for those not acquainted with. The main topic on static optimization is nonlinear programming, wonderfully written. Together with calculus of variations, Bellman equation is also covered in dynamic programming. The author presents several applications. The main are about static comparative, general equilibrium, welfare economics (all concerning static optimization) and optimal economic growth. One chapter is devoted to Game Theory, but I think there are better books on that. The exercises are extremely difficult, although very interesting. Today, there are several books on Mathematical Economics, maybe better than this, therefore someone thinking about adopting it should be careful.

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