Mathematics for Economics and Finance: Methods and Modelling

By Martin Anthony, Norman Biggs

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Mathematics has become indispensable in the modelling of economics, finance, business and management. Without expecting any particular background of the reader, this book covers the following mathematical topics, with frequent reference to applications in economics and finance: functions, graphs and equations, recurrences (difference equations), differentiation, exponentials and logarithms, optimisation, partial differentiation, optimisation in several variables, vectors and matrices, linear equations, Lagrange multipliers, integration, first-order and second-order differential equations. The stress is on the relation of maths to economics, and this is illustrated with copious examples and exercises to foster depth of understanding. Each chapter has three parts: the main text, a section of further worked examples and a summary of the chapter together with a selection of problems for the reader to attempt. For students of economics, mathematics, or both, this book provides an introduction to mathematical methods in economics and finance that will be welcomed for its clarity and breadth.

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Mathematics for Economics and Finance: Methods and Modelling By Martin Anthony, Norman Biggs Bibliography

- Sales Rank: #738394 in eBooks
- Published on: 1996-07-13
- Released on: 1996-07-13
- Format: Kindle eBook

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