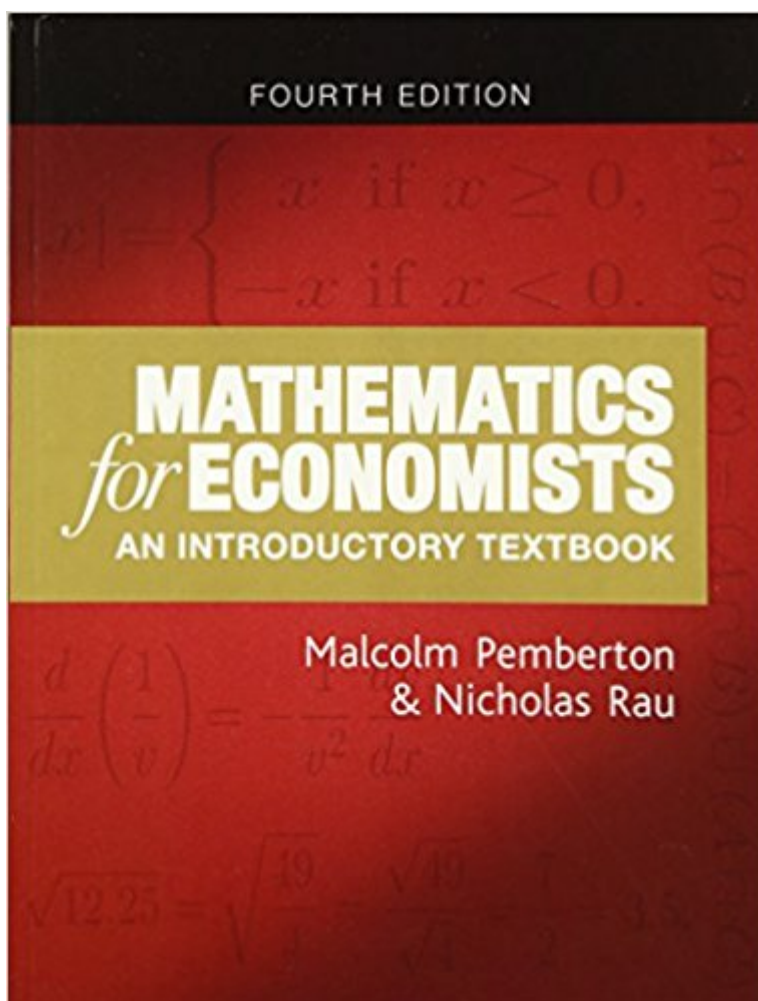




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# Mathematics For Economists: An Introductory Textbook



## Synopsis

This book, now in its fourth edition, is a self-contained treatment of all the mathematics needed by undergraduate and masters-level students of economics: calculus, matrix algebra, probability, optimisation and dynamics. The emphasis throughout is on intuitive argument and problem-solving, and all methods are illustrated by well-chosen examples, exercises and problems selected from central areas of modern economic analysis. Clear, systematic and building up gently from a very low level, the book can be used in a variety of course formats for students with or without prior knowledge of calculus, for reference and for self-study. The last two chapters provide an introduction to the rigorous mathematical analysis used in graduate-level economics, and two chapters on probability theory, new to this edition, provide the essential mathematical background for upper-level courses on economic theory, econometrics and finance. Answers to all exercises and complete solutions to all problems are available online from a regularly updated website.

## Book Information

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## Customer Reviews

'In spite of the wide scope of this textbook, its presentation is clear and crisp. The materials are very carefully organised. The transition from mathematical principles to economic propositions is remarkably lucid throughout the book. If a first-year undergraduate student in economics comes to ask me which one, among many books on mathematics for economists, to buy for years to come, then I would definitely tell them that this is the one.' -- Chiaki Hara, Institute of Economic Research, Kyoto University  
This is a great text to learn from the authors do an excellent job providing intuitive explanations, making connections between results and illustrating the use of mathematics in solving

economics problems, and there is a host of solved exercises which perform two roles: providing essential practice material and introducing further applications in economics.' -- Andrew Chesher, Director of The Centre for Microdata Methods and Practice, IFS and UC

Malcolm Pemberton is Senior Lecturer in Economics at University College London  
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Clearly written, with a good balance between theory and applications, and with lots of good exercises. I will use it, as I have done in the past, next time I teach advanced calculus for economists

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