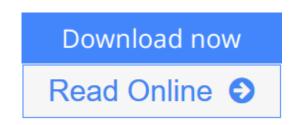# Mathematics for Economists with Applications

By James Bergin

Mathematics for Economists with Applications By James Bergin

Mathematics for Economists with Applications provides detailed coverage of the mathematical techniques essential for undergraduate and introductory graduate work in economics, business and finance.

Beginning with linear algebra and matrix theory, the book develops the techniques of univariate and multivariate calculus used in economics, proceeding to discuss the theory of optimization in detail. Integration, differential and difference equations are considered in subsequent chapters. Uniquely, the book also features a discussion of statistics and probability, including a study of the key distributions and their role in hypothesis testing. Throughout the text, large numbers of new and insightful examples and an extensive use of graphs explain and motivate the material. Each chapter develops from an elementary level and builds to more advanced topics, providing logical progression for the student, and enabling instructors to prescribe material to the required level of the course.

With coverage substantial in depth as well as breadth, and including a companion website at **www.routledge.com/cw/bergin**, containing exercises related to the worked examples from each chapter of the book, *Mathematics for Economists with Applications* contains everything needed to understand and apply the mathematical methods and practices fundamental to the study of economics.

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James Bergin is Professor of Economics at Queen's University, Canada.

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