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| Titolo | Mathematical Economics : Prelude to the Neoclassical Model // by Kam Yu |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019 |
| ISBN | 3-030-27289-3 |
| Edizione | [1st ed. 2019.] |
| Descrizione fisica | 1 online resource (XIII, 214 p. 26 illus., 18 illus. in color.) |
| Collana | Springer Texts in Business and Economics, , 2192-4333 |
| Disciplina | 330.0151 |
| Soggetti | Game theory Economic theory Microeconomics Macroeconomics Game Theory, Economics, Social and Behav. Sciences Economic Theory/Quantitative Economics/Mathematical Methods Macroeconomics/Monetary Economics//Financial Economics |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Chapter 1. Logic and Proof -- Chapter 2. Sets and Relations -- Chapter 3. Basic Topology -- Chapter 4. Linear Algebra -- Chapter 5. Vector Calculus -- Chapter 6. Convex Analysis -- Chapter 7. Optimization -- Chapter 8. Probability -- Chapter 9. Dynamic Modeling. |
| Sommario/riassunto | This textbook provides a one-semester introduction to mathematical economics for first year graduate and senior undergraduate students. Intended to fill the gap between typical liberal arts curriculum and the rigorous mathematical modeling of graduate study in economics, this text provides a concise introduction to the mathematics needed for core microeconomics, macroeconomics, and econometrics courses. Chapters 1 through 5 builds students' skills in formal proof, axiomatic treatment of linear algebra, and elementary vector differentiation. Chapters 6 and 7 present the basic tools needed for microeconomic analysis. Chapter 8 provides a quick introduction to (or review of) probability theory. Chapter 9 introduces dynamic modeling, applicable in advanced macroeconomics courses. The materials assume |

prerequisites in undergraduate calculus and linear algebra. Each chapter includes in-text exercises and a solutions manual, making this text ideal for self-study.
