1.	Record Nr.	UNINA9910360854403321
	Autore	Yu Kam
	Titolo	Mathematical Economics : Prelude to the Neoclassical Model / / by Kam Yu
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
	ISBN	9783030272890 3030272893
	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, , 2192-4341
	Disciplina	330.0151
	Soggetti	Game theory Econometrics Microeconomics Macroeconomics Game Theory Quantitative Economics Macroeconomics and Monetary 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.