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Nota di contenuto	Frontmatter -- Preface -- Contents -- Part I: General principles of demoeconomics -- 1. The population-economy system -- 2. Probabilistic techniques in demoeconomic forecasting -- Part II: Foundations of spatial demography -- 3. The population system -- 4. Demographic characteristics of fertility -- 5. Demographic characteristics of mortality -- 6. Demographic characteristics of migration -- 7. Macrosystem models of population dynamics -- Part III: Foundations of spatial economics -- 8. Modeling economics -- 9. Evolutionary economics -- 10. Self-organization in economic systems -- 11. Spatial interaction of economic systems -- 12. Selected models of spatial macroeconomics -- 13. Fluctuations in models of spatial economics -- Part IV: Macrosystem models of demoeconomics -- 14. Macrosystems concept in demoeconomics -- 15. One-sector macrosystem demoeconomic model (MSDEM) -- 16. Macrosystem demoeconomic model with regional localization of sectors (branches) Ns MSDEM -- 17. Macrosystem model of labour market -- 18. Probabilistic macrosystem demoeconomic model -- Part V: Mathematical appendices -- A. Some theorems of implicit functions -- B. Estimating the local Lipschitz Constant of the entropy operator Bv,q

-- C. Estimating the local Lipschitz Constant of the entropy operator $F_{v,q}$ -- D. Zero-order multiplicative algorithms for positive solutions to nonlinear equations -- E. Multiplicative algorithms for positive solutions to entropy-quadratic programming problems -- Bibliography -- Index

Sommario/riassunto

This monograph aspires to lay the foundations of a new scientific discipline, demoeconomics, representing the synthesis of demography and spatial economics. This synthesis is performed in terms of interaction between population and its economic activity. The monograph appears a unique research work having no analogs in scientific literature. Demoeconomic systems are studied involving the macrosystems approach which combines the generalized entropy maximization principle and the local equilibria principle. Demoeconomic systems operate in an uncertain environment; thus and so, the monograph develops the methodology and technique of probabilistic modeling and forecasting of their evolution.
