# ECONOMIC DYNAMICS IN DISCRETE TIME SECOND EDITION

**JIANJUN MIAO** 

# **Economic Dynamics In Discrete Time**

**Giancarlo Gandolfo** 

#### **Economic Dynamics In Discrete Time:**

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existence of equilibria in economies having a measured space of agents and a continuum of agents and commodities Excessive homogeneity with respect to agent productivity leads to instability and non uniqueness of a given stationary state and the indeterminacy of the corresponding stationary state equilibrium Sufficient heterogeneity leads to global saddle path stability uniqueness of a given stationary state and the global uniqueness of the corresponding equilibrium Dynamical Economics and Chaotic Motion Hans-Walter Lorenz, 2012-12-06 Usually the first edition of a book still contains a multiplicity of typographic con ceptional and computational errors even if one believes the opposite at the time of publication As this book did not represent a counterexample to this rule the current second edition offers a chance to remove at least the known shortcomings The book has been partly re organized The previously rather long Chapter 4 has been split into two separate chapters dealing with discrete time and continuous time approaches to nonlinear economic dynamics. The short summary of basic properties of linear dynamical systems has been banned to an appendix because the line of thought in the chapter seems to have been unnecessarily interrupted by these technical details and because the book concentrates on nonlinear systems This appendix which mainly deals with special formal properties of dynamical systems also contains some new material on invariant subspaces and center manifold reductions A brief introduction into the theory of lags and operators is followed by a few remarks on the relation between the true properties of dynamical systems and their behavior observable in numerical experiments Additional changes in the main part of the book include a re consideration of Popper's determinism vs inde terminism discussion in the light of chaotic properties of deterministic nonlinear systems in Chapter 1 An investigation of a simultaneous price quantity adjustment process a more detailed inquiry into the uniqueness property of limit cycles and a short presentation of relaxation oscillations are included in Chapter 2 Recursive Methods in Economic <u>Dynamics</u> Nancy L. Stokey,1989-10-10 This rigorous but brilliantly lucid book presents a self contained treatment of modern economic dynamics Stokey Lucas and Prescott develop the basic methods of recursive analysis and illustrate the many areas where they can usefully be applied Difference Equations, Discrete Dynamical Systems and Applications Sorin Olaru, Jim Cushing, Saber Elaydi, René Lozi, 2024-03-01 This book presents contributions related to new research results presented at the 27th International Conference on Difference Equations and Applications ICDEA 2022 that was held at CentraleSup lec Universit Paris Saclay France under the auspices of the International Society of Difference Equations ISDE July 18 22 2022 The book aims not only to disseminate these results but to foster further advances in the fields of difference equations and discrete dynamical systems Also included are applications to economic growth modeling population dynamics epidemic modeling game theory control systems and network analysis The target audience for the book includes Ph D students researchers educators and practitioners in these fields Complex Systems Approach to Economic Dynamics Abraham C.-L. Chian, 2007-07-13 Economic Systems exhibit complex dynamics evidenced by large amplitude and aperiodic fluctuations in economic variables such as foreign exchange rates and stock market prices indicating that these systems are

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Dynamic Economic Analysis Gerhard Sorger, 2015-02-12 Concise yet rigorous this textbook provides a clear and systematic introduction to the theory and application of dynamic economic models 
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