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Descrizione fisica	217 p., 57 p. di tav., [1] c. di tav. : ill. ; 30 cm
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Nota di contenuto	Part I General Theory of Difference Equations, A. Linero Bas and Daniel N. Roldan, Families of 6-cycles of third order -- Inese Bula and Agnese

Sile, About a System of Piecewise Linear Difference Equations with Many Periodic Solutions -- Zachary A. Kudlak and R. Patrick Vernon, Boundedness of Solutions of and of with Non-constant Coefficients -- D. Andrica and O. Bagdasar, On the Dynamic Geometry of Kasner Polygons with Complex Parameter -- Svetlin G. Georgiev and S. Kryzhevich, Linear Time-Varying Dynamic-Algebraic Equations of Index One on Time Scales -- Part II. Discrete Dynamical Systems, P. Glendinning and David J.W. Simpson, Differentiable conjugacies for one-dimensional maps -- M. Misiurewicz and Hong-Kun Zhang, Topological Entropy Of Generalized Bunimovich Stadium Billiards -- J. Hannam, B. Krauskopf, and H. M. Osinga, Global manifolds of saddle periodic orbits parametrised by isochrons -- R. Boruga, On uniform dichotomies for the growth rates of linear discrete-time dynamical systems in Banach spaces -- Erik I. Verriest, Stability and Realization of Difference Equations over Z and R -- Part III. Discrete-time models applied to engineering, biology and economics, G. I. Bischi, Discrete dynamical systems in economics: two seminal models and their developments -- V. Rasvan, On a class of applications for difference equations in continuous time -- Azmy S. Ackleh and Amy Veprauskas, The Interplay Between Dispersal and Allee Effects in a Two-Patch Discrete-Time Model -- M. Saburov and K. Saburov, Krause Mean Processes Generated by Off-Diagonally Uniformly Positive Nonautonomous Stochastic Hyper-Matrices -- Part IV. Control design techniques and numerical methods in relationship with discrete-time models, D. Normand-Cyrot, S. Monaco, M. Mattioni, and A. Moreschini, Passivity techniques and Hamiltonian structures in discrete time -- S. S. Mihai, F. Stoican, and B. D. Ciubotaru, Explicit MPC solution using Hasse diagrams: construction, storage and retrieval -- S. Diaconescu, F. Stoican, and B. D. Ciubotaru, Tube Model Predictive Control for Flexible Satellite Dynamics -- N. Pop, T. Sireteanu, L. Vladareanu, M. Iliescu, Ana-Maria Mitu, and V. Marius Maxim, Numerical modeling and some optimal control problems of dynamic systems describing contact problems with friction in elasticity -- M. Assal and S. Belhaj, A Particular Solution for Higher Order Non-Homogeneous Discrete Cauchy-Euler Equations.

Sommario/riassunto

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 CentraleSupélec, Université 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.