

1.	Record Nr.	UNIBAS000021315
	Titolo	Patterns of government : the major political systems of Europe / Samuel H. Beer... [et al.] ; under the editorship of Samuel H. Beer and Adam B. Ulam
	Pubbl/distr/stampa	New York : Random House, 1962
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	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9911137974103321
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	Descrizione fisica	1 online resource (665 p.)
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; CONTENTS; 1 Nonstandard Finite Difference Methods R. E. Mickens; 2 Application of Nonstandard Finite Difference Schemes to the Simulation Studies of Robotic Systems R. F. Abo-Shanab. N . Sepehri and C. Q. Wu; 3 Applications of Mickens Finite Differences to Several Related Boundary Value Problems R. Buckmire; 4 High Accuracy Nonstandard Finite-Difference Time- Domain Algorithms for Computational Electromagnetics: Applications to Optics and Photonics J. B. Cole 5 Nonstandard Finite Difference Schemes for Solving Nonlinear Micro Heat Transport Equations in Double-Layered Metal Thin Films Exposed to Ultrashort Pulsed Lasers W. Dai6 Reliable Finite Difference Schemes with Applications in Mathematical Ecology D. T. Dimitrow. H . V . Kojouharov and B. M. Chen-Charpentier; 7 Applications of the Non-Standard Finite Difference Method in Non-Smooth Mechanics Y. Dumont; 8 Finite Difference Schemes on Unbounded Domains M. Ehrhardt 9 Asymptotically Consistent Non-Standard Finite-Difference Methods for Solving Mathematical Models Arising in Population Biology A . B . Gumel, K . C . Patidar and R . J . Spiteri10 Nonstandard Finite Difference Methods and Biological Models S. R.-J. Jang; 11 Robust Discretizations versus Increase of the Time Step for Chaotic Systems C. Letellier and E. M. A. M. Mendes; 12 Contributions to the Theory of Non-Standard Finite Difference Methods and Applications to Singular Perturbation Problems J. M.-S. Luburna and K. C. Patidar 13 Frequency Accurate Finite Difference Methods A. L. Perkins P. A. Orlin and F. Zand14 Nonstandard Discretization Methods on Lotka-Volterra Differential Equations L.-I. W. Roeger
Sommario/riassunto	This volume provides a concise introduction to the methodology of nonstandard finite difference (NSFD) schemes construction and shows how they can be applied to the numerical integration of differential equations occurring in the natural, biomedical, and engineering sciences. These methods had their genesis in the work of Mickens in the 1990's and are now beginning to be widely studied and applied by other researchers. The importance of the book derives from its clear and direct explanation of NSFD in the introductory chapter along with a broad discussion of the future directions needed to adv