1.

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Titolo	De Vesuuiano incendio nuntius in lucem iterum editus. Auctore Iulio Caesare Recupito ..
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2.

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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Reviews of Nonlinear Dynamics and Complexity; Contents; Preface; List of Contributors; 1 Nonlinear Dynamics of Nanomechanical and Micromechanical Resonators; 1.1 Nonlinearities in NEMS and MEMS Resonators; 1.1.1 Why Study Nonlinear NEMS and MEMS?; 1.1.2 Origin of Nonlinearity in NEMS and MEMS Resonators; 1.1.3 Nonlinearities Arising from External Potentials; 1.1.4 Nonlinearities Due to Geometry; 1.2 The Directly-driven Damped Duffing Resonator; 1.2.1 The Scaled Duffing Equation of Motion; 1.2.2 A Solution Using Secular Perturbation Theory; 1.2.3 Addition of Other Nonlinear Terms 1.3 Parametric Excitation of a Damped Duffing Resonator1.3.1 Driving Below Threshold: Amplification and Noise Squeezing; 1.3.2 Linear Instability; 1.3.3 Nonlinear Behavior Near Threshold; 1.3.4 Nonlinear Saturation Above Threshold; 1.3.5 Parametric Excitation at the Second Instability Tongue; 1.4 Parametric Excitation of Arrays of Coupled Duffing Resonators; 1.4.1 Modeling an Array of Coupled Duffing Resonators; 1.4.2 Calculating the Response of an Array; 1.4.3 The Response of Very Small Arrays - Comparison of Analytics and Numerics; 1.4.4 Response of Large Arrays - Numerical Simulation 1.5 Amplitude Equation Description for Large Arrays1.5.1 Amplitude Equations for Counter Propagating Waves; 1.5.2 Reduction to a Single Amplitude Equation; 1.5.3 Single Mode Oscillations; References; 2 Delay Stabilization of Rotating Waves Without Odd Number Limitation; 2.1 Introduction; 2.2 Mechanism of Stabilization; 2.3 S(1)-Symmetry and Stability of Rotating Waves; 2.4 Conditions on the Feedback Gain; 2.5 Tori; 2.6 Conclusion; References; 3 Random Boolean Networks; 3.1 Introduction; 3.2 Model; 3.2.1 Topology; 3.2.2 Update Functions; 3.2.3 Dynamics; 3.2.4 Applications; 3.2.5 Problems 3.3 Annealed Approximation and Phase Diagrams3.3.1 The Time Evolution of the Proportion of 1s and 0s; 3.3.2 The Time Evolution of the Hamming Distance; 3.3.3 The Statistics of Small Perturbations in Critical Networks; 3.3.4 Problems; 3.4 Networks with K = 1; 3.4.1 Topology of K = 1 Networks; 3.4.2 Dynamics on K = 1 Networks; 3.4.2.1 Cycles on Loops; 3.4.2.2 K = 1 Networks in the Frozen Phase; 3.4.2.3 Critical K = 1 Networks; 3.4.3 Dynamics on K = N Networks; 3.4.4 Application: Basins of Attraction in Frozen, Critical and Chaotic Networks; 3.4.5 Problems; 3.5 Critical Networks with K = 2 3.5.1 Frozen and Relevant Nodes3.5.2 Analytical Calculations; 3.5.3 Problems; 3.6 Networks with Larger K; 3.7 Outlook; 3.7.1 Noise; 3.7.2 Scale-free Networks and Other Realistic Network Structures; 3.7.3 External Inputs; 3.7.4 Evolution of Boolean Networks; 3.7.5 Beyond the Boolean Approximation; References; 4 Return Intervals and Extreme Events in Persistent Time Series with Applications to Climate and Seismic Records; 4.1 Introduction; 4.2 Statistics of Return Intervals; 4.2.1 Data Generation and Mean Return Interval 4.2.2 Stretched Exponential Behavior and Finite-Size Effects for Large Return Intervals
Sommario/riassunto	Adopting a cross-disciplinary approach, the review character of this monograph sets it apart from specialized journals. The editor is advised by a first-class board of international scientists, such that the carefully selected and invited contributions represent the latest and most relevant findings. The resulting review enables both researchers and newcomers in life science, physics, and chemistry to access the most important results in this field, using a common language.