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Nota di contenuto	1. Offset boosting regulated multistablity -- 2. A further analysis of the passive compass-gait bipedal robot and its period-doubling route to chaos -- 3.Hidden attractors of jerk equation based dynamical systems -- 4. Analysis of a Hyperchaotic System with a Hyperbolic Sinusoidal Nonlinearity and Its Application to Area Exploration Using Multiple Autonomous Robots -- 5. 3D Nonlinear Flow-induced Vibration model of Tubing Strings in High-Pressure, High-Temperature and High-Yield Curved Gas Wells -- 6. From Radiation and Space Exploration to The

Fractional Calculus -- 7. Design of a Multi-System Chaotic Path Planner for an Autonomous Mobile Robo -- 8. Double-Frequency Jitter influence on synchronous states of time-delayed oscillators networks -- 9. Hölder Continuous Fractal Interpolation Functions -- 10. Solvability In The Sense Of Sequences for Some Non-Fredholm operators Related To The Double Scale Anomalous Diffusion In Higher Dimensions -- 11.Uncertainty in Epidemic Models Based on a Three-sided Coin -- 12.The energy of trees with diameter five under given conditions.

Sommario/riassunto

This book presents select, recent developments in nonlinear and complex systems reported at the 1st Online Conference on Nonlinear Dynamics and Complexity, held on November 23-25, 2020. It provides an exchange recent developments, discoveries, and progresses in Nonlinear Dynamics and Complexity. The collection presents fundamental and frontier theories and techniques for modern science and technology, stimulates more research interest for exploration of nonlinear science and complexity; and passes along new knowledge and insight to the next generation of engineers and technologists in a range of fields.