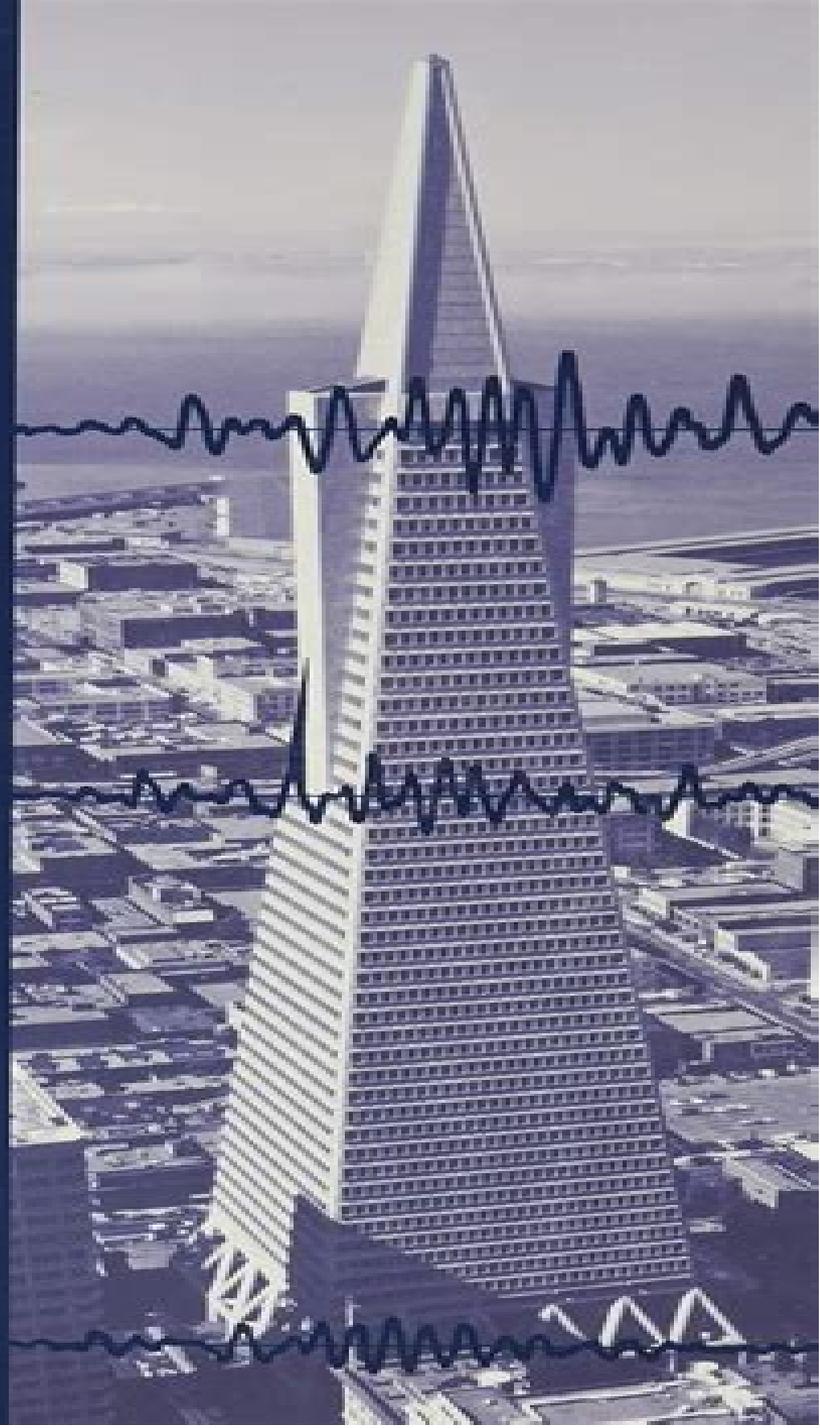


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*Engineering Applications of Dynamics of Chaos* W. Szemplinska-Stupnicka, H. Troger, 2014-10-08 The treatment of chaotic dynamics in mathematics and physics during last two decades has led to a number of new concepts for the investigation of complex behavior in nonlinear dynamical processes The aim of the CISM course *Engineering Applications of Dynamics of Chaos* of which this is the proceedings volume was to make these concepts available to engineers and applied scientists possessing only such modest knowledges in mathematics which are usual for engineers for example graduating from a Technical University The contents of the articles contributed by leading experts in this field cover not only theoretical foundations and algorithmic and computational aspects but also applications to engineering problems In the first article an introduction into the basic concepts for the investigation of chaotic behavior of dynamical systems is given which is followed in the second article by an extensive treatment of approximative analytical methods to determine the critical parameter values describing the onset of chaos The important relation between chaotic dynamics and the phenomenon of turbulence is treated in the third article by studying instabilities various fluid flows In this contribution also an introduction into interesting phenomenon of pattern formation is given The fourth and fifth articles present various applications to nonlinear oscillations including roll motions of ships rattling oscillations in gear boxes tumbling oscillations of satellites flutter motions of fluid carrying pipes and vibrations of robot arms In the final article a short treatment of hyperchaos is given

*Modeling of Dynamic Systems with Engineering Applications* CLARENCE W. DE SILVA, 2022-07-13 This book provides cutting edge insight into systems dynamics and related controls coverage for both students and practicing engineers Updated throughout for the second edition it serves as a firm foundation to develop

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Applications of Chaos and Nonlinear Dynamics in Engineering - Santo Banerjee, Mala Mitra, Lamberto

Rondoni, 2013-11-27 Chaos and nonlinear dynamics initially developed as a new emergent field with its foundation in physics and applied mathematics. The highly generic interdisciplinary quality of the insights gained in the last few decades has spawned myriad applications in almost all branches of science and technology and even well beyond. Wherever quantitative modeling and analysis of complex nonlinear phenomena is required, chaos theory and its methods can play a key role. This volume concentrates on reviewing the most relevant contemporary applications of chaotic nonlinear systems as they apply to the various cutting edge branches of engineering. The book covers the theory as applied to robotics, electronic and communication engineering, for example, chaos synchronization and cryptography, as well as to civil and mechanical engineering, where its use in damage monitoring and control is explored. Featuring contributions from active and leading research groups, this collection is ideal both as a reference and as a recipe book full of tried and tested successful engineering applications.

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