

Design Analysis

Mathematical Modeling
of Nonlinear Systems

David E. Thompson



Design Analysis Mathematical Modeling Of Nonlinear Systems

David E. Thompson



Design Analysis Mathematical Modeling Of Nonlinear Systems:

Design Analysis David E. Thompson, 1999 Intended for senior or beginning graduate students this text also serves as a helpful reference for engineers who can put into practice the mathematical modeling methods and solution techniques presented here

Nonlinear Systems Christos K. Volos, 2017 A non linear system is a set of nonlinear equations which may be algebraic ordinary differential partial differential fractional integral or a combination of these Especially nowadays the term dynamical system is used as a synonym of nonlinear systems where the nonlinear equations represent the evolution of a solution over time So the notion of dynamical systems arose following the name of equations governing the motion of a system of particles even though the nonlinear system may have no application to mechanics Also from an engineering point of view a nonlinear system may be represented with a feedback loop in which the output of an element is not proportional to its input Over the last few decades nonlinear systems have been used to describe a great variety of phenomena in social and life sciences as well as in physical sciences and engineering The theory of nonlinear systems has applications to problems of population growth economics chemical reactions celestial mechanics physiology of nerves onset of turbulence regulation of heartbeats electronic circuits cryptography secure communications and many others Nonlinear dynamical systems which present chaotic behaviour are of great importance due to their applications in science and engineering Chaotic systems are nonlinear dynamical systems and maps that are highly sensitive to initial conditions The sensitivity of initial conditions is usually called the butterfly effect for dynamical systems and maps So nowadays the design and analysis of nonlinear systems and especially chaotic systems has gained the interest of the research community due to the fact that many phenomena on financial physical biological chemical mechanical and engineering systems can be modelled and studied through the perspective of non linear dynamics These nonlinear systems can be modelled by discrete time or continuous time mathematical models This book aims to bridge the gap between the design analysis and applications which are the two research stages on the progress of nonlinear systems and also which open up some new directions of real applications where chaos can be put up to technological use including secure communication systems electronic circuits design memristors and radar Finally this book can serve as an updated and handy reference for university professors graduate students laboratory researchers as well as physicists and applied mathematicians who are interested in studying the chaos and its applications through the field of nonlinear systems

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