



# Applications of Nonlinear Dynamics: Model and Design of Complex Systems (Understanding Complex Systems)

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The field of applied nonlinear dynamics has attracted scientists and engineers across many different disciplines to develop innovative ideas and methods to study complex behavior exhibited by relatively simple systems. Examples include: population dynamics, fluidization processes, applied optics, stochastic resonance, locking and bifurcations, lasers, and mechanical and electrical oscillators. A common theme among these and many other examples is the underlying universal laws of nonlinear science that govern the behavior, in space and time, of a given system. These laws are universal in the sense that they transcend the model-specific features of a system and so they can be readily applied to explain and predict the behavior of a wide ranging phenomena, natural and artificial ones. Thus the emphasis in the past decades has been in explaining nonlinear phenomena with significantly less attention paid to exploiting the rich behavior of nonlinear systems to design and fabricate new devices that can operate more efficiently. Recently, there has been a series of meetings on topics such as Experimental Chaos, Neural Coding, and Stochastic Resonance, which have brought together many researchers in the field of nonlinear dynamics to discuss, mainly, theoretical ideas that may have the potential for further implementation. In contrast, the goal of the 2007 ICAND (International Conference on Applied Nonlinear Dynamics) was focused more sharply on the implementation of theoretical ideas into actual devices and systems.

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