



Chaotic Signal Processing

Henry Leung

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Chaos is a deterministic random phenomenon. Many signal processes (e.g., radar and sonar) have a random appearance, and chaos provides an alternative approach to processing these signals. This book presents up-to-date research results on chaotic signal processing, including the application of nonlinear dynamics to radar target recognition, an exactly solvable chaos approach for communications, a chaotic approach for reconfigurable computing, system identification using chaos, design of a high resolution LADAR system based on chaos, and the use of chaos in compressive sensing.

Audience: This book is intended for researchers and graduate students in chaos, applied nonlinear dynamics, signal processing, and radar communications.

Contents: Chapter 1: An Overview of Chaotic Signal Processing; Chapter 2: Target Recognition Using Nonlinear Dynamics; Chapter 3: Communicating with Exactly Solvable Chaos; Chapter 4: Logic from Dynamics; Chapter 5: System Identification Using Chaos; Chapter 6: Characterization and optimization of a Chaotic LADAR System for High Resolution Range Determination; Chapter 7: Reverse Engineering of Complex Dynamical Systems Based on Compressive Sensing; Index.

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