



Chaos Applications in Telecommunications

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The concept of transmitting information from one chaotic system to another derives from the observation of the synchronization of two chaotic systems. Having developed two chaotic systems that can be synchronized, scientists can modulate on one phase signal the information to be transmitted, and subtract (demodulate) the information from the corresponding phase signal of the coupled chaotic system.

Chaos Applications in Telecommunications demonstrates this technique in various applications of communication systems. This book details methods of transmitting information at much higher levels of security than what is available by current techniques. Following a detailed introduction, the book demonstrates how chaotic signals are generated and transmitted. It then details the design of chaotic transmitters and receivers, and describes chaos-based modulation and demodulation techniques. The text describes how a chaos-based spreading sequence outperforms classical pseudorandom sequences in selective and nonselective channels. It also develops channel equalization techniques designed for chaotic communications systems by applying knowledge of systems dynamics, linear time-invariant representations of chaotic systems, and symbolic dynamics representations of chaotic systems. The final chapter explains a specific application for optical communications.

This volume provides the essential information for those who want an integrated view of how an established concept such as chaos can open new roads in the communications and security fields.



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