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Nota di contenuto	Frontmatter -- Preface -- Contents -- 1. Introduction -- 2. Characteristic Analysis Methods for Nonlinear System -- 3. Typical Chaotic Systems -- 4. Chaotic Synchronization Principle and Method -- 5. Secure Communication Technology Based on Chaos Synchronization -- 6. Data Encryption Based on Chaotic Sequence -- 7. Audio and Video Chaotic Encryption and Communication Technology -- 8. Analysis and Simulation of Fractional-Order Chaotic System -- 9. Simulation and Hardware Implementation of Chaotic System -- Appendix A: Important Academic Journals in the Field of Chaos -- Appendix B: Matlab Source Programs of Chaos Characteristic Analysis -- References -- Index
Sommario/riassunto	The monograph begins with a systematic introduction of chaos and chaos synchronization, and then extends to the methodologies and technologies in secure communication system design and implementation. The author combines theoretical frameworks with empirical studies, making the book a practical reference for both academics and industrial engineers.