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Steven H. Strogatz

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Steven H. Strogatz



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Gravity, Cosmology, and Astrophysics Betti Hartmann, Jutta Kunz, 2023-10-14 This book is a compilation of enlightening tutorial essays showcasing the forefront of research by exceptional female scientists This invaluable collection provides graduate students and researchers in the field with an engaging and pedagogical introduction to a wide range of compelling topics Delve into the depths of theoretical and observational realms exploring intriguing subjects including modified gravity models quantum gravity fields in curved space time particle dynamics gravitational waves and enigmatic black holes Embracing both the theoretical foundations and the practical applications this comprehensive edited volume offers an accessible and all encompassing panorama of gravity and cosmology Moreover it shines a much needed spotlight on the significant contributions made by remarkable women across the globe fostering recognition and admiration for their indispensable role in shaping this ever evolving field

16th Chaotic Modeling and Simulation International Conference Christos H. Skiadas, Yiannis Dimotikalis, 2025-01-15 This proceedings of 16th CHAOS2023 International Conference highlights recent developments in nonlinear dynamical and complex systems The conference was intended to provide an essential forum for Scientists and Engineers to exchange ideas methods and techniques in the field of Nonlinear Dynamics Chaos Fractals and their applications in General Science and Engineering Sciences The principal aim of CHAOS2023 International Conference is to expand the development of the theories of the applied nonlinear field the methods empirical data and computer techniques as well as the best theoretical achievements of chaotic theory CHAOS2023 Conference provides a forum for bringing together the various groups working in the area of Nonlinear and Dynamical Systems Chaotic theory and Application to exchange views and report research findings Chapter 22 and 23 are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Cybersecurity Ahmed A. Abd El-Latif, Christos Volos, 2022-03-25 This book presents techniques and security challenges of chaotic systems and their use in cybersecurity It presents the state of the art and the latest discoveries in the field of chaotic systems and methods and proposes new models practical solutions and technological advances related to new chaotic dynamical systems The book can be used as part of the bibliography of the following courses Cybersecurity Cryptography Networks and Communications Security Nonlinear Circuits Nonlinear Systems and Applications

An Approach to Multi-agent Systems as a Generalized Multi-synchronization Problem Rafael Martínez-Guerra, Juan Pablo Flores-Flores, 2023-03-09 This book

addresses the problem of multi agent systems considering that it can be interpreted as a generalized multi synchronization problem From manufacturing tasks through encryption and communication algorithms to high precision experiments the simultaneous cooperation between multiple systems or agents is essential to successfully carrying out different modern activities both in academy and industry For example the coordination of multiple assembler robots in manufacturing lines These agents need to synchronize The first two chapters of the book describe the synchronization of dynamical systems paying special attention to the synchronization of non identical systems Following the third chapter presents an interesting application of the synchronization phenomenon for state estimation Subsequently the authors fully address the multi agent problem interpreted as multi synchronization The final chapters introduce the reader to a more complex problem the synchronization of systems governed by partial differential equations both of integer and fractional order The book aimed at graduates postgraduate students and researchers closely related to the area of automatic control Previous knowledge of linear algebra classical and fractional calculus is requested as well as some fundamental notions of graph theory

10th International Munich Chassis Symposium 2019 Peter E. Pfeffer,2019-11-01 The increasing automation of driving functions and the electrification of powertrains present new challenges for the chassis with regard to complexity redundancy data security and installation space At the same time the mobility of the future will also require entirely new vehicle concepts particularly in urban areas The intelligent chassis must be connected electrified and automated in order to be best prepared for this future

Random Number Generators Luis Gerardo de la Fraga, José David Rodríguez-Muñoz, Esteban Tlelo-Cuautle,2025-05-17 This book discusses the details of random number generation RNG as a key technology that is used for information security in various fields such as electronic commerce and authentication Readers will see how random numbers are used in various applications such as in the generation of keys for data encryption games lotteries sampling simulations statistical sampling search sort algorithms and gambling The authors describe how the classification of RNGs encompasses linear and nonlinear chaotic pseudo and truly random number generators and how they can be evaluated by applying statistical tests Covers a vast array of special topics on fractional order chaotic circuits and systems to develop applications in information security Describes details of using FPGAs to approach chaotic maps and fractional order circuits and systems for hardware security Includes Verilog hardware description for random number generation

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