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# Network Theory By Pankaj Swankar

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Soft Computing: Theories and Applications  
Semiconductor Nanocrystals  
Intelligent Communication, Control and Devices  
Sliding Mode Control  
Proceedings of ICAIAA 2019  
First International Conference, ICAICR 2017, Jalandhar, India, March 17-18, 2017,  
Revised Selected Papers  
Proceedings of ICCDN 2017  
International Conference on Artificial Intelligence: Advances and Applications 2019  
Advanced Informatics for Computing Research  
Advances in Communication, Devices and Networking  
There are No Electrons  
Sliding Mode Control of Switching Power Converters  
Food Technology Disruptions  
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Routing TCP/IP  
Circuit and Network Theory—GATE, PSUS AND ES Examination  
Solutions manual  
Proceedings of the 6th International Conference on Wireless Technologies,  
Embedded, and Intelligent Systems

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### Soft Computing: Theories and Applications Cisco Press

The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It includes high-quality research papers from the 3rd international conference, ICICCD 2018, organized by the Department of Electronics, Instrumentation and Control Engineering at the University of Petroleum and Energy Studies, Dehradun on 21–22 December 2018. Covering a range of recent advances in intelligent communication, intelligent control and intelligent devices., the book presents original research and findings as well as researchers' and industrial practitioners' practical development experiences of. *Semiconductor Nanocrystals* Tata McGraw-Hill Education

*Sliding Mode Control of Switching Power Converters: Techniques and Implementation* is perhaps the first in-depth account of how sliding mode controllers can be practically engineered to optimize control of power converters. A complete understanding of this process is timely and necessary, as the electronics industry moves toward the use of renewable energy sources and widely varying loads that can be adequately supported only by power converters using nonlinear controllers. Of the various advanced control methods used to handle the complex requirements of power conversion systems, sliding mode control (SMC) has been most widely investigated and proved to be a more feasible alternative than fuzzy and adaptive control for

existing and future power converters. Bridging the gap between power electronics and control theory, this book employs a top-down instructional approach to discuss traditional and modern SMC techniques. Covering everything from equations to analog implantation, it: Provides a comprehensive general overview of SMC principles and methods Offers advanced readers a systematic exposition of the mathematical machineries and design principles relevant to construction of SMC, then introduces newer approaches Demonstrates the practical implementation and supporting design rules of SMC, based on analog circuits Promotes an appreciation of general nonlinear control by presenting it from a practical perspective and using familiar engineering terminology With specialized coverage of modeling and implementation that is useful to students and professionals in electrical and electronic engineering, this book clarifies SMC principles and their application to power converters. Making the material equally accessible to all readers, whether their background is in analog circuit design, power electronics, or control engineering, the authors—experienced researchers in their own right—elegantly and practically relate theory, application, and mathematical concepts and models to corresponding industrial targets. *Intelligent Communication, Control and Devices* CRC Press

This book presents the outcome of two-day 2nd International e-Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering and Technology (ICSISCET 2020) held at Madhav Institute of Technology & Science (MITS), Gwalior, India, from December 18–19, 2020. The book

extensively covers recent research in artificial intelligence (AI) that knit together nature-inspired algorithms, evolutionary computing, fuzzy systems, computational intelligence, machine learning, deep learning, etc., which is very useful while dealing with real problems due to their model-free structure, learning ability, and flexible approach. These techniques mimic human thinking and decision-making abilities to produce systems that are intelligent, efficient, cost-effective, and fast. The book provides a friendly and informative treatment of the topics which makes this book an ideal reference for both beginners and experienced researchers.

*Sliding Mode Control* Manchester University Press

This book presents select proceedings of the international conference on Innovations in Clean Energy Technologies (ICET 2020) and examines a range of durable, energy efficient and next-generation smart green technologies for sustainable future by reflecting on the trends, advances and development taking place all across the globe. The topics covered include smart technologies based product, energy efficient systems, solar and wind energy, carbon sequestration, green transportation, green buildings, energy material, biomass energy, smart cities, hydro power, bio-energy and fuel cell. The book also discusses various performance attributes of these clean energy technologies and their workability and carbon footprint. The book will be a valuable reference for beginners, researchers and professionals interested in clean energy technologies.

**Proceedings of ICAIAA 2019** Springer  
The importance of network analysis and synthesis is well known in the various

engineering fields. The book provides comprehensive coverage of the signals and network analysis, network functions and two port networks, network synthesis and active filter design. The book is structured to cover the key aspects of the course Network Analysis & Synthesis. The book starts with explaining the various types of signals, basic concepts of network analysis and transient analysis using classical approach. The Laplace transform plays an important role in the network analysis. The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis. The book includes the discussion of network functions of one and two port networks. The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity. It also derives the interrelationships between the two port network parameters. The network synthesis starts with the realizability theory including Hurwitz polynomial, properties of positive real functions, Sturm's theorem and maximum modulus theorem. The book covers the various aspects of one port network synthesis explaining the network synthesis of LC, RC, RL and RLC networks using Foster and Cauer forms. Then it explains the elements of transfer function synthesis. Finally, the book illustrates the active filter design. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book explains the philosophy of the subject which makes the understanding of the concepts very

clear and makes the subject more interesting.

First International Conference, ICAICR 2017, Jalandhar, India, March 17-18, 2017, Revised Selected Papers Springer  
This book focuses on soft computing and how it can be applied to solve real-world problems arising in various domains, ranging from medicine and healthcare, to supply chain management, image processing and cryptanalysis. It gathers high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2020), organized online. The book is divided into two volumes and offers valuable insights into soft computing for teachers and researchers alike; the book will inspire further research in this dynamic field.

Proceedings of ICCDN 2017 Pearson Education India

This Book Has Been Designed As A Basic Text For Undergraduate Students Of Electrical, Electronics And Communication And Computer Engineering. In A Systematic And Friendly Manner, The Book Explains Not Only The Fundamental Concepts Like Circuit Elements, Kirchhoff S Laws, Network Equations And Resonance, But Also The Relatively Advanced Topics Like State Variable Analysis, Modern Filters, Active Rc Filters And Sensitivity Considerations. Salient Features \* Basic Circuit Elements, Time And Periodic Signals And Different Types Of Systems Defined And Explained. \* Network Reduction Techniques And Source Transformation Discussed. \* Network Theorems Explained Using Typical Examples. \* Solution Of Networks Using Graph Theory Discussed. \* Analysis Of First Order, Second Order Circuits And A Perfect Transform Using Differential Equations Discussed. \* Theory And

Application Of Fourier And Laplace Transforms Discussed In Detail. \* Interconnections Of Two-Port Networks And Their Performance In Terms Of Their Poles And Zeros Emphasised. \* Both Foster And Cauer Forms Of Realisation Explained In Network Synthesis. \* Classical And Modern Filter Theory Explained. \* Z-Transform For Discrete Systems Explained. \* Analogous Systems And Spice Discussed. \* Numerous Solved Examples And Practice Problems For A Thorough Graph Of The Subject. \* A Huge Question Bank Of Multiple Choice Questions With Answers Exhaustively Covering The Topics Discussed. With All These Features, The Book Would Be Extremely Useful Not Only For Undergraduate Engineering Students But Also For Amie And Gate Candidates And Practising Engineers.

International Conference on Artificial Intelligence: Advances and Applications 2019 Harmony Search and Nature Inspired Optimization Algorithms Theory and Applications, ICHSA 2018

A physics book that covers the optical properties of quantum-confined semiconductor nanostructures from both the theoretical and experimental points of view together with technological applications. Topics to be reviewed include quantum confinement effects in semiconductors, optical adsorption and emission properties of group IV, III-V, II-VI semiconductors, deep-etched and self assembled quantum dots, nanoclusters, and laser applications in optoelectronics.

Advanced Informatics for Computing Research Springer Nature

This book introduces research presented at the "International Conference on Artificial Intelligence: Advances and Applications-2019 (ICAIAA 2019)," a two-day conference and workshop bringing together leading academicians,

researchers as well as students to share their experiences and findings on all aspects of engineering applications of artificial intelligence. The book covers research in the areas of artificial intelligence, machine learning, and deep learning applications in health care, agriculture, business and security. It also includes research in core concepts of computer networks, intelligent system design and deployment, real-time systems, WSN, sensors and sensor nodes, SDN and NFV. As such it is a valuable resource for students, academics and practitioners in industry working on AI applications.

Advances in Communication, Devices and Networking Springer Nature

The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work in these areas. The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval.

*There are No Electrons* Springer

The international conference will provide an opportunity to the practicing engineers, academicians, researchers, and students to meet in a forum to discuss various issues in Power Electronics, Intelligent Control and

Energy Systems In view of the changing scenario, the conference aims to put together the experts from these areas to disseminate their knowledge and experience for working towards soft computing techniques, electronics and energy sustainability in the years to come The conference will spark innovative ideas, foster research relations or partnerships between the various institutions and build strong research and development community

Sliding Mode Control of Switching Power Converters Springer

This book covers recent trends in the field of devices, wireless communication and networking. It gathers selected papers presented at the International Conference on Communication, Devices and Networking (ICCDN 2020), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India, on 19–20 December 2020. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it helps young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on how to address real-world problems in the areas of electronics, communication, devices and networking.

*Food Technology Disruptions* Springer Nature

This textbook provides readers with a good working knowledge of adaptive control theory through applications. It is intended for students beginning masters or doctoral courses, and control practitioners wishing to get up to speed in the subject expeditiously. Readers are taught a wide variety of adaptive control techniques starting with simple methods and extending step-by-step to more

complex ones. Stability proofs are provided for all adaptive control techniques without obfuscating reader understanding with excessive mathematics. The book begins with standard model-reference adaptive control (MRAC) for first-order, second-order, and multi-input, multi-output systems. Treatment of least-squares parameter estimation and its extension to MRAC follow, helping readers to gain a different perspective on MRAC. Function approximation with orthogonal polynomials and neural networks, and MRAC using neural networks are also covered. Robustness issues connected with MRAC are discussed, helping the student to appreciate potential pitfalls of the technique. This appreciation is encouraged by drawing parallels between various aspects of robustness and linear time-invariant systems wherever relevant. Following on from the robustness problems is material covering robust adaptive control including standard methods and detailed exposition of recent advances, in particular, the author's work on optimal control modification. Interesting properties of the new method are illustrated in the design of adaptive systems to meet stability margins. This method has been successfully flight-tested on research aircraft, one of various flight-control applications detailed towards the end of the book along with a hybrid adaptive flight control architecture that combines direct MRAC with least-squares indirect adaptive control. In addition to the applications, understanding is encouraged by the use of end-of-chapter exercises and associated MATLAB® files. Readers will need no more than the standard mathematics for basic control theory such as differential equations and

matrix algebra; the book covers the foundations of MRAC and the necessary mathematical preliminaries.

*Electronics for Earthlings* Springer

The names of colors are woven into unrhymed poems that celebrate the seasons.

**Theory and Applications, ICHSA 2018** Springer

This book presents peer-reviewed articles from the 6th International Conference on Wireless Technologies, Embedded and Intelligent Systems (WITS 2020), held at Fez, Morocco. It presents original research results, new ideas and practical lessons learnt that touch on all aspects of wireless technologies, embedded and intelligent systems. WITS is an international conference that serves researchers, scholars, professionals, students and academicians looking to foster both working relationships and gain access to the latest research results. Topics covered include Telecoms & Wireless Networking Electronics & Multimedia Embedded & Intelligent Systems Renewable Energies.

Harmony Search and Nature Inspired Optimization Algorithms Tata McGraw-Hill Education

**INTELLIGENT RENEWABLE ENERGY SYSTEMS** This collection of papers on artificial intelligence and other methods for improving renewable energy systems, written by industry experts, is a reflection of the state of the art, a must-have for engineers, maintenance personnel, students, and anyone else wanting to stay abreast with current energy systems concepts and technology. Renewable energy is one of the most important subjects being studied, researched, and advanced in today's world. From a macro level, like the stabilization of the entire world's

economy, to the micro level, like how you are going to heat or cool your home tonight, energy, specifically renewable energy, is on the forefront of the discussion. This book illustrates modelling, simulation, design and control of renewable energy systems employed with recent artificial intelligence (AI) and optimization techniques for performance enhancement. Current renewable energy sources have less power conversion efficiency because of its intermittent and fluctuating behavior. Therefore, in this regard, the recent AI and optimization techniques are able to deal with data ambiguity, noise, imprecision, and nonlinear behavior of renewable energy sources more efficiently compared to classical soft computing techniques. This book provides an extensive analysis of recent state of the art AI and optimization techniques applied to green energy systems. Subsequently, researchers, industry persons, undergraduate and graduate students involved in green energy will greatly benefit from this comprehensive volume, a must-have for any library. Audience Engineers, scientists, managers, researchers, students, and other professionals working in the field of renewable energy.

*Harmony Search Algorithm* Springer Nature

Offers an entertaining introduction to the physics of electricity.

*Circuits and Networks: Analysis and Synthesis*, 5 McGraw-Hill Education

This two-volume set (CCIS 1075 and CCIS 1076) constitutes the refereed proceedings of the Third International Conference on Advanced Informatics for Computing Research, ICAICR 2019, held in Shimla, India, in June 2019. The 78 revised full papers presented were carefully reviewed and selected from

382 submissions. The papers are organized in topical sections on computing methodologies; hardware; information systems; networks; software and its engineering.

Advanced Informatics for Computing Research Peter Peregrinus Limited

The book focuses on soft computing and its applications to solve real-world problems occurring in different domains ranging from medicine and healthcare, and supply chain management to image processing and cryptanalysis. It includes high-quality papers presented in the International Conference on Soft Computing: Theories and Applications (SoCTA 2017), organized by Bundelkhand University, Jhansi, India. Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

Springer Science & Business Media

*Food Technology Disruptions* covers the latest disruptions in the food industry, such as the Internet of Things, digital technologies, modern applications like 3D printing, bacterial sensors in food packaging, electronic noses for food authentication, and artificial intelligence. With additional discussions on innovative distribution and delivery of food and consumer acceptance of food disruptions, this book is an essential resource for food scientists, technologists, engineers, agriculturalists, chemists, product developers, researchers, academics and professionals working in the food industry. While innovations play an important role in food production, disruptive technologies are a revolutionary type of innovation that can displace an established technology and shake up the industry...or create a

completely new industry. Currently, digital technologies and smart applications lead innovations in the food sector in order to optimize the food supply chain and to develop and deliver tailor-made food products to consumers with new eating habits. Covers digital technologies in agriculture, food production and food processing, modern

eating habits, personalized nutrition, and relevant innovative food products Brings alternative protein sources, novel functional foods and artificial meat Discusses the Internet of Things, digital technologies and modern applications like 3D printing, smart packaging and smart food distribution

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