

# Ashfaq Hussain Solutions

Principles of Power System  
 Proceedings of ICUIS 2021  
 Impacts, Threats, and Sustainable Remediation  
 Power System Engineering  
 A Study of Village Organizational Factors Affecting Water Management Decision Making in Pakistan  
 Research Studies at Quaid-i-Azam University, Islamabad  
 Being Ethnic Minority and Muslim in a Global City-State  
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 Electrical Power Systems  
 Intelligent Data Security Solutions for e-Health Applications  
 Pakistan Journal of Scientific and Industrial Research  
 Research Anthology on Environmental and Societal Impacts of Climate Change  
 Madina Book 1 - English Key  
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 Climate Change and Anthropogenic Impacts on Health in Tropical and Subtropical Regions  
 Networks and Systems  
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 Analog Communication Systems  
 Proceedings of the First International Conference on Combinatorial and Optimization, ICCAP 2021, December 7-8 2021, Chennai, India  
 Nanomedicine Manufacturing and Applications  
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 Sustainable Solutions for Food Security  
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 International Conference, FGCN/ACN 2009, Held as Part of the Future Generation Information Technology Conference, FGIT 2009, Jeju Island, Korea, December 10-12, 2009. Proceedings  
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## **GLOVER MELODY**

Principles of Power System Springer Science & Business Media

Climate change is an issue that has been generating a significant amount of discussion, research, and debate in recent years. Climate change continues to evolve at a rapid rate and continues to have a wide array of effects on everything from temperature to plant life. Beyond the negative environmental impacts, climate change is also proving to be a detriment to society with increasingly violent natural disasters and human health effects. It is essential to stay up to date on the latest in emerging research within this field as it continues to develop. The Research Anthology on Environmental and Societal Impacts of Climate Change discusses the varied effects of climate change throughout all areas of life and provides a comprehensive dive into the latest research on key elements of society that are affected by the rapidly increasing climate. Covering a range of topics including reproduction, plants and animals, and energy demand, it is ideal for environmentalists, policymakers, environmental engineers, scientists, disaster and crisis management personnel, professionals, government officials, practitioners, upper-level students, and academics interested in emerging research on the numerous impacts of climate change.

**Proceedings of ICUIS 2021** Springer

Soil is the most important natural non-renewable resource developed over a longer period of time due to weathering of rocks and subsequently

enrichment of organic matter. Soil provides habitat for numerous microorganisms and serves as a natural medium for plant growth, thereby providing the plants with anchorage, nutrients and water to sustain the growth. Soil also serves as a universal sink for all types of pollutants, purifies ground water and is a major reserve of carbon in the universe. The role of soils to provide ecosystem services, maintenance of environmental/human health and ensuring the food security makes it as the most important and basic natural resource. Soil Science helps us to elaborate and understand how the soils provide all these services. Soil Science also provides us the basic knowledge dealing with the origin of the soil parent material, weathering of parent material and the formation of soils, morphological, physico-chemical and biological features of soils, classification of soils and role of soils in the provision and maintenance of ecosystem services, food security and environmental quality. This book encompasses the various processes, functions and behaviour of soils very comprehensively to acquaint the students of soil, plant and environmental sciences about their role to perform different agricultural and environmental functions.

Impacts, Threats, and Sustainable Remediation Springer Science & Business Media

Networks and Systems KHANNA PUBLISHING HOUSE

Power System Engineering CRC Press

The late Arthur Rook established the Textbook of Dermatology as the most comprehensive work of reference available to the dermatologist. Covering all aspects of skin disease from basic science through pathology and epidemiology to clinical practice, the text is recognized for its unparalleled coverage of diagnosis. Hailed by reviewers as 'a thorough, modern masterpiece' and 'the best textbook of dermatology in the world', and trusted

by dermatologists around the world for accurate and comprehensive coverage, this clinical classic is the definitive source of information for all dermatologists. The new edition of this venerable classic extends the standard of excellence to include: All-new coverage of cosmetic dermatology and sexually transmitted diseases More material on evidence-based dermatology Increased coverage of dermoscopy More emphasis on therapeutics throughout the set More contributions from a greater variety of international experts New page design with larger illustrations for more immediate recognition The 8th Edition marks the debut of the online edition of Rook's Textbook of Dermatology, allowing users the fastest possible access to the full range of knowledge on all known dermatological conditions. With fully searchable text and a fully searchable bank of more than 3,300 downloadable images, this online version puts specific information at your fingertips - when and where you need it - and is free with purchase of the four-volume set. The person-specific access code travels with you, not your computer, so you can check with Rook from any location. With the online version, you can: Search across all four volumes simultaneously Search all images separately Download images into presentations Link directly to references via a range of sources Rook's Textbook of Dermatology, in print and now online, provides a reliable, constant companion for all dermatologists.

*A Study of Village Organizational Factors Affecting Water Management Decision Making in Pakistan* Springer

E-health applications such as tele-medicine, tele-radiology, tele-ophthalmology, and tele-diagnosis are very promising and have immense potential to improve global healthcare. They can improve access, equity, and quality through the connection of healthcare facilities and healthcare professionals, diminishing geographical and physical barriers. One critical issue, however, is related to the security of data transmission and access to the technologies of medical information. Currently, medical-related identity theft costs billions of dollars each year and altered medical information can put a person's health at risk through misdiagnosis, delayed treatment or incorrect prescriptions. Yet, the use of hand-held devices for storing, accessing, and transmitting medical information is outpacing the privacy and security protections on those devices. Researchers are starting to develop some imperceptible marks to ensure the tamper-proofing, cost effective, and guaranteed originality of the medical records. However, the robustness, security and efficient image archiving and retrieval of medical data information against these cyberattacks is a challenging area for researchers in the field of e-health applications. Intelligent Data Security Solutions for e-Health Applications focuses on cutting-edge academic and industry-related research in this field, with particular emphasis on interdisciplinary approaches and novel techniques to provide security solutions for smart applications. The book provides an overview of cutting-edge security techniques and ideas to help graduate students, researchers, as well as IT professionals who want to understand the opportunities and challenges of using emerging techniques and algorithms for designing and developing more secure systems and methods for e-health applications. Investigates new security and privacy requirements related to eHealth technologies and large sets of applications Reviews how the abundance of digital information on system behavior is now being captured, processed, and used to improve and strengthen security and privacy Provides an overview of innovative security techniques which are being developed to ensure the guaranteed authenticity of transmitted, shared or stored data/information

**Research Studies at Quaid-i-Azam University, Islamabad** Springer Nature

Agriculture plays a pivotal role in the economy and development of Pakistan providing food to consumers, raw materials to industries, and a market for industrial goods. Unfortunately, agricultural production is stagnant due to several barriers including a fixed cropping pattern, reliance on a few major crops, a narrow genetic pool, poor seed quality, and a changing climate. In addition, the high cost of production, weak phytosanitary compliance mechanisms, and a lack of cold chain facilities makes Pakistan agriculturally uncompetitive in export markets. Despite all these issues, agriculture is the primary industry in Pakistan and small farmers continue to dominate the business. Small farmers grow crops for subsistence under a fixed cropping pattern and a holistic approach is required to develop agriculture to improve the livelihoods of the rural populace. This book presents an exhaustive look at agriculture in Pakistan. Chapters provide critical analyses of present trends, inadequacies in agriculture, strategic planning, improvement programs and policies while keeping in view the natural resources, plant- and animal-related agricultural production technologies, input supplies, population planning, migration and poverty, and balanced policies on finance, credit, marketing, and trade.

*Being Ethnic Minority and Muslim in a Global City-State* S. Chand Publishing

This volume is the first centralized source of technological and policy solutions for sustainable agriculture and food systems resilience in the face of climate change. The editors have compiled a comprehensive collection of the latest tested, replicable green technologies and approaches for food security, including smart crops and new agricultural paradigms, sustainable natural resources management, and strategies for risk assessment and governance. Studies from resource-constrained countries with vulnerable populations are emphasized, with contributions on multisector partnership from development professionals. Debates concerning access to climate-smart technologies, intellectual property rights, and international negotiations on technology transfer are also included. The editors are, respectively, a public health physician, a development professional and an environmental scientist. They bring their varied perspectives together to curate a holistic volume that will be useful for policy makers, scientists, community-based organizations, international organizations and researchers across the world.

**Electrical Power System** Routledge

Recognizing the current demands of the workplace, this applications-oriented introduction offers an easy-to-understand explanation of the principles of power electronics, with complete coverage on the switching, control and conversion of electrical power using semiconductor devices. Reflecting the increasing demand for efficient conversion and control of electrical power, it considers the latest power devices, circuits, and control schemes that continue to extend power electronics technology to new applications areas. Presents material methodically - first establishing the background theory before going on to specific applications. Familiarizes readers with the analysis and operation of various power conversion circuits that have applications at high power levels, and formulates equations that govern the behavior of these circuits. Discusses the application of power electronic devices in uncontrolled and controlled single phase rectifiers, inverters, ac voltage controllers, cycloconverters, and dc choppers, and demonstrates voltage and current waveform analysis for the output, starting with a simple resistive load to more practical inductive loads. Includes many worked examples, basic formulas, and an abundance of illustrations and diagrams.

**Electrical Power Systems** Elsevier

The Malay population makes up Singapore's three largest ethnic groups. This book presents holistic and extensive analysis of the 'Malay Muslim story' in Singapore. Comprehensively and convincingly argued, the author examines their challenging circumstances in the fields of politics, education, social mobility, economy, leadership, and freedom of religious expression. The book makes a significant contribution to the understanding of Muslims in Singapore, and the politics of a Malay-Muslim minority in a global city-state. It is of interest to researchers and students in the field of Singaporean studies, Southeast Asian Studies and Islam in Asia.

**Intelligent Data Security Solutions for e-Health Applications** PHI Learning Pvt. Ltd.

"Taking into consideration that the agricultural industry is greatly dependent on pesticide chemicals to deal with the damage caused due to pests, this new volume details the challenges along with the bioremediation and remediation measures, such as the use of beneficial microorganisms, polymeric nanocomposites for nanoremediation, phytoremediation, and more. It looks at pesticide contamination from agricultural activities in a variety of different environs and a selection of sustainable and eco-friendly remediation approaches. It provides a spectrum of concepts, ideas, and knowledge related to the detrimental actions of pesticides on the environment directly and on human beings indirectly and provides insight into sustainable and advanced pesticide remediation technology. Pesticide Contamination in Freshwater and Soil Environs: Impacts, Threats, and Sustainable Remediation fills a gap in the available literature in this field and will provide valuable for academicians, researchers, agriculturists, and students"--

**Pakistan Journal of Scientific and Industrial Research** Pearson College Division

Power System Optimization is intended to introduce the methods of multi-objective optimization in integrated electric power system operation, covering economic, environmental, security and risk aspects as well. Evolutionary algorithms which mimic natural evolutionary principles to constitute random search and optimization procedures are appended in this new edition to solve generation scheduling problems. Written in a student-friendly style, the book provides simple and understandable basic computational concepts and algorithms used in generation scheduling so that the readers can develop their own programs in any high-level programming language. This clear, logical overview of generation scheduling in electric power systems permits both students and power engineers to understand and apply optimization on a dependable basis. The book is particularly easy-to-use with sound and consistent terminology and perspective throughout. This edition presents systematic coverage of local and global optimization techniques such as binary- and real-coded genetic algorithms, evolutionary algorithms, particle swarm optimization and differential evolutionary algorithms. The economic dispatch problem presented, considers higher-order nonlinearities and discontinuities in input-output characteristics in fossil fuel burning plants due to valve-point loading, ramp-rate limits and prohibited operating zones. Search optimization techniques presented are those which participate efficiently in decision making to solve the multiobjective optimization problems. Stochastic optimal generation scheduling is also updated in the new edition. Generalized Z-bus distribution factors (GZBDF) are presented to compute the active and reactive power flow on transmission lines. The interactive decision making methodology based on fuzzy set theory, in order to determine the optimal generation allocation to committed generating units, is also discussed. This book is intended to meet the needs of a diverse range of groups interested in the application of optimization techniques to power system operation. It requires only an elementary knowledge of numerical techniques and matrix operation to understand most of the topics. It is designed to serve as a textbook for postgraduate electrical engineering students, as well as a reference for faculty, researchers, and power engineers interested in the use of optimization as a tool for reliable and secure economic operation of power systems. Key Features The book discusses : Load flow techniques and economic dispatch—both classical and rigorous Economic dispatch considering valve-point loading, ramp-rate limits and prohibited operating zones Real coded genetic algorithms for economic dispatch Evolutionary programming for economic dispatch Particle swarm optimization for economic dispatch Differential evolutionary algorithm for economic dispatch Stochastic multiobjective thermal power dispatch with security Generalized Z-bus distribution factors to compute line flow Stochastic multiobjective hydrothermal generation scheduling Multiobjective thermal power dispatch using artificial neural networks Fuzzy multiobjective generation scheduling Multiobjective generation scheduling by searching weight pattern

**Research Anthology on Environmental and Societal Impacts of Climate Change** Tata McGraw-Hill Education

This book is intended to serve as a textbook for BE., B. Tech, students of Electrical, Electronics, Computer, Instrumentation, Control and communication Engineering. It will also serve as a text reference for the students of diploma in Engineering. AMIE, GATE, UPSC Engineering services, IAS candidate would also find the book extremely useful. Subject matter in each chapter developed systematically from first principles. Written in a very simple language. Simple and clear explanation of concepts. Large number of carefully selected worked examples. Most simplified methods used. Step-by-step procedures given for solving problems. Ideally suited for self-study.

**Madina Book 1 - English Key** Learn Qur'an

This book offers a unique blend of reports on both theoretical models and their applications in the area of Intelligent Information and Database Systems. The reports cover a broad range of research topics, including advanced learning techniques, knowledge engineering, Natural Language Processing (NLP), decision support systems, Internet of things (IoT), computer vision, and tools and techniques for Intelligent Information Systems. They are extended versions of papers presented at the ACIIDS 2018 conference (10th Asian Conference on Intelligent Information and Database Systems), which was held in Dong Hoi City, Vietnam on 19-21 March 2018. What all researchers and students of computer science need is a state-of-the-art report on the latest trends in their respective areas of interest. Over the years, researchers have proposed increasingly complex theoretical models, which provide the theoretical basis for numerous applications. The applications, in turn, have a profound influence on virtually every aspect of human activities, while also allowing us to validate the underlying theoretical concepts.

**Power System Analysis** John Wiley & Sons

As future generation information technology (FGIT) becomes specialized and fr- mented, it is easy to lose sight that many topics in FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that c- bine ideas taken from multiple disciplines in order to achieve something more signi- cant than the sum of the individual parts. Through such hybrid philosophy, a new principle can

be discovered, which has the propensity to propagate throughout multi-faceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), Disaster Recovery and Business Continuity (DRBC; published independently), Future Generation Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed Computing (GDC), Multimedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition (SIP), and e-Service, Science and Technology (UNESST).

*Theses Submitted to the University Upto 1986* Academic Press

This sigma Series book on Electric Machines deals with the fundamentals of the subject through problem solving technique and provides innumerable solved, unsolved problems along with review and objective type questions. Features Complete coverage of fundamentals of electrical machines.

Emphasis is placed on the basic concepts, theorems, and problem-solving techniques. Each chapter begins with brief theoretical explanation needed for solving the related problems. 1640 problems given in the book.

*Ubiquitous Intelligent Systems* European Alliance for Innovation

About the Book: Electrical power system together with Generation, Distribution and utilization of Electrical Energy by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.

**Environmental Concerns and Solutions** Engineering Science Reference

The emphasis of the book is given in how to construct different types of solutions (exact, approximate analytical, numerical, graphical) of numerous nonlinear PDEs correctly, easily, and quickly. The reader can learn a wide variety of techniques and solve numerous nonlinear PDEs included and many other differential equations, simplifying and transforming the equations and solutions, arbitrary functions and parameters, presented in the book). Numerous comparisons and relationships between various types of solutions, different methods and approaches are provided, the results obtained in Maple and Mathematica, facilitates a deeper understanding of the subject. Among a big number of CAS, we choose the two systems, Maple and Mathematica, that are used worldwide by students, research mathematicians, scientists, and engineers. As in our previous books, we propose the idea to use in parallel both systems, Maple and Mathematica, since in many research problems frequently it is required to compare independent results obtained by using different computer algebra systems, Maple and/or Mathematica, at all stages of the solution process. One of the main points (related to CAS) is based on the implementation of a whole solution method (e.g. starting from an analytical derivation of exact

governing equations, constructing discretizations and analytical formulas of a numerical method, performing numerical procedure, obtaining various visualizations, and comparing the numerical solution obtained with other types of solutions considered in the book, e.g. with asymptotic solution).

*Madina Book 2 - English Key* John Wiley & Sons

Greater emphasis needs to be placed on research into eco-friendly processes particularly suited for the textile industry. With this goal in mind, all environmental aspects relating to the textile and clothing industry are discussed in this book. Included in the 11 informative chapters herein are topics covering the correlation between the environment and the processing and utilization of textiles and clothing. Chapter 1 discusses the direct impact that the textile industry has on the environment. The hazardous environmental consequences that synthetic dyes used to color textiles have on the environment are highlighted in Chapter 2. Greener alternatives to dyeing are discussed in Chapters 3 through 5, and eco-friendly ways of finishing textiles are discussed in Chapters 6 and 7. Finally, solutions to address the environmental hazards associated with the textile industry are presented in Chapters 8 through 11.

*Climate Change and Anthropogenic Impacts on Health in Tropical and Subtropical Regions* Tata McGraw-Hill Education

Climate change and environmental pollution remain two primary areas of concern in today's world. These detrimental influences continue to have a strong impact on various aspects of humanity, specifically public health in tropical regions. Researchers have seen neglected tropical diseases (NTDs) affected by climate change and anthropogenic impacts. *Climate Change and Anthropogenic Impacts on Health in Tropical and Subtropical Regions* is a pivotal reference source that provides vital research on the association of environmental pollutants and global warming with viruses in tropical regions. While highlighting topics such as pathogenicity, travel impact, and economic impacts, this publication explores the developments and trends in these areas of medicine and ecology, as well as prevention strategies to be used for educational and sensitization purposes. This book is ideally designed for doctors, medical practitioners, ecologists, epidemiologists, environmentalists, world health organizations, researchers, biologists, policymakers, academicians, and students.

*Networks and Systems* KHANNA PUBLISHING HOUSE

This proceeding constitutes the thoroughly refereed proceedings of the 1st International Conference on Combinatorial and Optimization, ICCAP 2021, December 7-8, 2021. This event was organized by the group of Professors in Chennai. The Conference aims to provide the opportunities for informal conversations, have proven to be of great interest to other scientists and analysts employing these mathematical sciences in their professional work in business, industry, and government. The Conference continues to promote better understanding of the roles of modern applied mathematics, combinatorics, and computer science to acquaint the investigator in each of these areas with the various techniques and algorithms which are available to assist in his or her research. We selected 257 papers were carefully reviewed and selected from 741 submissions. The presentations covered multiple research fields like Computer Science, Artificial Intelligence, internet technology, smart health care etc., brought the discussion on how to shape optimization methods around human and social needs.

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