

# Electrical Machine By Ashfaq Hussain

Fundamentals of Electrical Engineering [Networks and Systems](#) Machine Learning, Optimization, and Data Science Electrical Power System [Machine Learning and Deep Learning in Real-Time Applications](#) Electrical Engineering Principles Proceedings of International Conference on Intelligent Computing, Information and Control Systems Handbook of Blood Gas/Acid-Base Interpretation A Textbook Of Electrical Machines Barque's Pakistan Trade Directory and Who's who [Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry](#) [Computational Methods and Data Engineering Proceedings of the 1996 International Conference on Parallel Processing, August 12-16, 1996: Algorithms & applications](#) [Power System Analysis](#) Innovative Approaches for Nanobiotechnology in Healthcare Systems Witness to Blunder The Killing of Osama Bin Laden Proceedings of the 1996 International Conference on Parallel Processing, August 12-16, 1996 Dealing with Imbalanced and Weakly Labelled Data in Machine Learning using Fuzzy and Rough Set Methods Empowering Sustainable Industrial 4.0 Systems With Machine Intelligence Artificial Intelligence in the Gulf Symmetry-Adapted Machine Learning for Information Security Graph Learning and Network Science for Natural Language Processing [Power System Analysis and Design Principles of Power System](#) [A Textbook of Strength of Materials](#) Lahore Directory of Income Tax Payers [Electric Machinery Fundamentals](#) Electrical Power Systems [Handbook of Electrical Design Details](#) Principles of Electrical Machines Power Electronics Step-by-Step: Design, Modeling, Simulation, and Control Principles of Electric Machines and Power Electronics Adaptive Business Intelligence Advances in Intelligent Data Analysis XIX Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems Fitzgerald & Kingsley's Electric Machinery Electrical Machines-I Electrical Machines - I Official Gazette of the United States Patent and Trademark Office

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Electrical Power System Jul 30 2022

Electrical Machines-I Aug 26 2019 This book is written so that it serves as a text book for B.E./B.Tech degree students in general and for the institutions where AICTE model curriculum has been adopted. TOPICS COVERED IN THIS BOOK:- Magnetic field and Magnetic circuit Electromagnetic force and torque D.C. Machines D.C. Machines-Motoring and Generation SALIENT FEATURES:- Self-contained, self-explanatory and simple to follow text. Numerous worked out examples. Well Explained theory parts with illustrations. Exercises, objective type question with answers at the end of each chapter.

Official Gazette of the United States Patent and Trademark Office Jun 24 2019

Graph Learning and Network Science for Natural Language Processing Dec 11 2020 Advances in graph-based natural language processing (NLP) and information retrieval tasks have shown the importance of processing using the Graph of Words method. This book covers recent concrete information, from the basics to advanced level, about graph-based learning, such as neural network-based approaches, computational intelligence for learning parameters and feature reduction, and network science for graph-based NLP. It also contains information about language generation based on graphical theories and language models. Features: -Presents a comprehensive study of the interdisciplinary graphical approach to NLP -Covers recent computational intelligence techniques for graph-based neural network models -Discusses advances in random walk-based techniques, semantic webs, and lexical networks -Explores recent research into NLP for graph-based streaming data -Reviews advances in knowledge graph embedding and ontologies for NLP approaches This book is aimed at researchers and graduate students in computer science, natural language processing, and deep and machine learning.

Proceedings of the 1996 International Conference on Parallel Processing, August 12-16, 1996: Algorithms & applications Oct 21 2021

Power Electronics Step-by-Step: Design, Modeling, Simulation, and Control Mar 02 2020 Explore the latest power electronics principles, practices, and applications This electrical engineering guide offers comprehensive coverage of design, modeling, simulation, and control for power electronics. The book describes real-world applications for the technology and features case studies worked out in both MATLAB and Simulink. Presented in an accessible style, Power Electronics Step-by-Step: Design, Modeling, Simulation, and Control focuses on the latest technologies, such as DC-based systems, and emphasizes the averaging technique for both simulation and modeling. You will get photos, diagrams, flowcharts, graphs, equations, and tables that illustrate each topic. Circuit components Non-isolated DC/DC conversion Power analysis DC to single-phase AC conversion Single-phase AC to DC conversion Galvanic isolated DC/DC conversion Power conversion for three-phase AC Bidirectional power conversion Averaging model for simulation Dynamic modeling of DC/DC converters Regulation of voltage and current

[Machine Learning and Deep Learning in Real-Time Applications](#) Jun 28 2022 Artificial intelligence and its various components are rapidly engulfing almost every professional industry. Specific features of AI that have proven to be vital solutions to numerous real-world issues are machine learning and deep learning. These intelligent agents unlock higher levels of performance and efficiency, creating a wide span of industrial applications. However, there is a lack of research on the specific uses of machine/deep learning in the professional realm. Machine Learning and Deep Learning in Real-Time Applications provides emerging research exploring the theoretical and practical aspects of machine learning and deep learning and their implementations as well as their ability to solve real-world problems within several professional disciplines including healthcare, business, and computer science. Featuring coverage on a broad range of topics such as image processing, medical improvements, and smart grids, this book is ideally designed for researchers, academicians, scientists, industry experts, scholars, IT professionals, engineers, and students seeking current research on the multifaceted uses and implementations of machine learning and deep learning across the globe.

[Handbook of Electrical Design Details](#) May 04 2020 A COMPREHENSIVE SOURCE OF TECHNICAL DETAILS ON ELECTRICAL POWER FROM GENERATION TO PRACTICAL APPLICATIONS Reliable, low-cost electric power is a fundamental requirement for modern society, making possible such vital services as lighting, HVAC, transportation, communication, and data processing, in addition to driving motors of all sizes. A mainstay of industrial productivity and economic prosperity, it is also essential for safeguarding human life and health. This handbook is a valuable information resource on electric power for everyone from technical professionals to students and laypeople. This compact, user-friendly edition updates and expands on the earlier edition. Its core content of power generation, distribution, lighting, wiring, motors, and project planning has been supplemented by new topics: \* CAD for preparing electrical drawings and estimates \* Basic switch and receptacle circuit wiring \* Structured wiring for multimedia \* Swimming pool and low-voltage lighting \* Electrical surge protection An easy-to-read style makes complex topics understandable. It's a must-have reference for those with a need or desire to get up to speed on the entire subject of electric power or just familiarize themselves with the latest advances--regardless of their formal education or training. Reader-helpful features in this edition include: \* Up-front chapter summaries to save time in finding topics of interest. \* References to related articles in the National Electrical Code. \* A bibliography identifying additional sources for digging deeper. \* Approximately 300 illustrations

Fitzgerald & Kingsley's Electric Machinery Sep 27 2019 This seventh edition of Fitzgerald and Kingsley's Electric Machinery by Stephen Umans was developed recognizing the strength of this classic text since its first edition has been the emphasis on building an understanding of the fundamental physical principles underlying the performance of electric machines. Much has changed since the publication of the first edition, yet the basic physical principles remain the same, and this seventh edition is intended to retain the focus on these principles in the context of today's technology.

Symmetry-Adapted Machine Learning for Information Security Jan 12 2021 Symmetry-adapted machine learning has shown encouraging ability to mitigate the security risks in information and communication technology (ICT) systems. It is a subset of artificial intelligence (AI) that relies on the principles of processing future events by learning past events or historical data. The autonomous nature of symmetry-adapted machine learning supports effective data processing and analysis for security detection in ICT systems without the interference of human authorities. Many industries are developing machine-learning-adapted solutions to support security for smart hardware, distributed computing, and the cloud. In our Special Issue book, we focus on the deployment of symmetry-adapted machine learning for information security in various application areas. This security approach can support effective methods to handle the dynamic nature of security attacks by extraction and analysis of data to identify hidden patterns of data. The main topics of this Issue include malware classification, an intrusion detection system, image watermarking, color image watermarking, battlefield target aggregation behavior recognition model, IP camera, Internet of Things (IoT) security, service function chain, indoor positioning system, and crypto-analysis.

Proceedings of International Conference on Intelligent Computing, Information and Control Systems Apr 26 2022 This book is a collection of papers presented at the International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2020). It encompasses various research works that help to develop and advance the next-generation intelligent computing and control systems. The book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications. The book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural networks and various neuro-hybrid methodologies. This book is pragmatic for researchers, academicians and students dealing with mathematically intransigent problems.

[Power System Analysis and Design](#) Nov 09 2020 The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Innovative Approaches for Nanobiotechnology in Healthcare Systems Aug 19 2021 Innovative and fusion technologies have shown an incredible ability to improve various

aspects of society, such as healthcare systems. Nanobiotechnology is one such technology that is being applied to medical equipment and treatment approaches. Many pharmaceutical and medical companies have begun to count on medical nanotechnology due to its abundant applications and practical uses. Innovative Approaches for Nanobiotechnology in Healthcare Systems is a pivotal reference source that provides insights into a comprehensive collection of novel techniques used for the development of safe drugs using the available resources for diverse deadly diseases. This book discusses the various platforms of nanobiotechnology that are utilized in various fields. It is expected that bionanosystems will play a crucial role in the treatment of human diseases and the improvement of existing healthcare systems. This book is ideal for scientists, biotechnologists, microbiologists, medical professionals, entrepreneurs, policymakers, researchers, academicians, and students.

**Principles of Electric Machines and Power Electronics** Jan 30 2020

**Proceedings of the 1996 International Conference on Parallel Processing**, August 12-16, 1996 May 16 2021

**Dealing with Imbalanced and Weakly Labelled Data in Machine Learning using Fuzzy and Rough Set Methods** Apr 14 2021 This book presents novel classification algorithms for four challenging prediction tasks, namely learning from imbalanced, semi-supervised, multi-instance and multi-label data. The methods are based on fuzzy rough set theory, a mathematical framework used to model uncertainty in data. The book makes two main contributions: helping readers gain a deeper understanding of the underlying mathematical theory; and developing new, intuitive and well-performing classification approaches. The authors bridge the gap between the theoretical proposals of the mathematical model and important challenges in machine learning. The intended readership of this book includes anyone interested in learning more about fuzzy rough set theory and how to use it in practical machine learning contexts. Although the core audience chiefly consists of mathematicians, computer scientists and engineers, the content will also be interesting and accessible to students and professionals from a range of other fields.

**Witness to Blunder** Jul 18 2021

**Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems** Oct 28 2019 tutorial speakers for their e'orts. We also thank the tutorial chair Gilles Pesant for his help in organizing this event.

**Artificial Intelligence in the Gulf Feb 10 2021** This book presents the first broad reflection on the challenges, opportunities, and implications of Artificial Intelligence (AI) in the Gulf Cooperation Council (GCC). Unique results and insights are derived through case studies from diverse disciplines, including engineering, economics, data science, policy-making, governance, and humankind. Particularly related to these 'softer' disciplines, we make some unexplored yet topical contributions to the literature, with a focus on the GCC (but by no means limited to it), including AI and implications for women, Islamic schools of thought on AI, and the power of AI to help deliver wellbeing and happiness in cities and urban spaces. Finally, the readers are provided with a synthesis of ideas, lessons learned, and a path forward based on the diverse content of the chapters. The book caters to the educated non specialist with interest in AI, targeting a wide audience including professionals, academics, government officials, policymakers, entrepreneurs, and non-governmental organizations.

**Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry** Dec 23 2021 The contemporary world lives on the data produced at an unprecedented speed through social networks and the internet of things (IoT). Data has been called the new global currency, and its rise is transforming entire industries, providing a wealth of opportunities. Applied data science research is necessary to derive useful information from big data for the effective and efficient utilization to solve real-world problems. A broad analytical set allied with strong business logic is fundamental in today's corporations. Organizations work to obtain competitive advantage by analyzing the data produced within and outside their organizational limits to support their decision-making processes. This book aims to provide an overview of the concepts, tools, and techniques behind the fields of data science and artificial intelligence (AI) applied to business and industries. The Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry discusses all stages of data science to AI and their application to real problems across industries—from science and engineering to academia and commerce. This book brings together practice and science to build successful data solutions, showing how to uncover hidden patterns and leverage them to improve all aspects of business performance by making sense of data from both web and offline environments. Covering topics including applied AI, consumer behavior analytics, and machine learning, this text is essential for data scientists, IT specialists, managers, executives, software and computer engineers, researchers, practitioners, academicians, and students.

**Lahore Directory of Income Tax Payers** Aug 07 2020

**Adaptive Business Intelligence** Dec 31 2019 Adaptive business intelligence systems combine prediction and optimization techniques to assist decision makers in complex, rapidly changing environments. These systems address fundamental questions: What is likely to happen in the future? What is the best course of action? Adaptive Business Intelligence explores elements of data mining, predictive modeling, forecasting, optimization, and adaptability. The book explains the application of numerous prediction and optimization techniques, and shows how these concepts can be used to develop adaptive systems. Coverage includes linear regression, time-series forecasting, decision trees and tables, artificial neural networks, genetic programming, fuzzy systems, genetic algorithms, simulated annealing, tabu search, ant systems, and agent-based modeling.

**Barque's Pakistan Trade Directory and Who's who** Jan 24 2022

**Power System Analysis** Sep 19 2021 This updated edition includes: coverage of power-system estimation, including current developments in the field; discussion of system control, which is a key topic covering economic factors of line losses and penalty factors; and new problems and examples throughout.

**Handbook of Blood Gas/Acid-Base Interpretation** Mar 26 2022 Handbook of Blood Gas/Acid-Base Interpretation, 2nd edition, simplifies concepts in blood gas/acid base interpretation and explains in an algorithmic fashion the physiological processes for managing respiratory and metabolic disorders. With this handbook, medical students, residents, nurses, and practitioners of respiratory and intensive care will find it possible to quickly grasp the principles underlying respiratory and acid-base physiology, and apply them. Uniquely set out in the form of flow-diagrams/algorithms charts, this handbook introduces concepts in a logically organized sequence and gradually builds upon them. The treatment of the subject in this format, describing processes in logical steps makes it easy for the reader to cover a difficult- and sometimes dreaded- subject rapidly. A Textbook Of Electrical Machines Feb 22 2022 This is a single-volume book on 'electrical machines' that teaches the subject precisely and yet with amazing clarity. The extent has been kept in control so that the entire subject can be covered by students within the limited time of the semesters. Thus, they will not have to consult multiple books anymore. The discussions of concepts include the modern trends used in industry, like efficient transformers, efficient induction motors, DC drives, and the problems related to them.

**Computational Methods and Data Engineering** Nov 21 2021 This book gathers selected high-quality research papers from the International Conference on Computational Methods and Data Engineering (ICMDE 2020), held at SRM University, Sonapat, Delhi-NCR, India. Focusing on cutting-edge technologies and the most dynamic areas of computational intelligence and data engineering, the respective contributions address topics including collective intelligence, intelligent transportation systems, fuzzy systems, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, and speech processing. Empowering Sustainable Industrial 4.0 Systems With Machine Intelligence Mar 14 2021 The recent advancement of industrial computerization has significantly helped in resolving the challenges with conventional industrial systems. The Industry 4.0 quality standards demand smart and intelligent solutions to revolutionize industrial applications. The integration of machine intelligence and internet of things (IoT) technologies can further devise innovative solutions to recent industrial application issues. Empowering Sustainable Industrial 4.0 Systems With Machine Intelligence assesses the challenges, limitations, and potential solutions for creating more sustainable and agile industrial systems. This publication presents recent intelligent systems for a wide range of industrial applications and smart safety measures toward industrial systems. Covering topics such as geospatial technologies, remote sensing, and temporal analysis, this book is a dynamic resource for health professionals, pharmaceutical professionals, manufacturing professionals, policymakers, engineers, computer scientists, researchers, instructors, students, and academicians.

**Electrical Engineering Principles** May 28 2022

**Networks and Systems** Oct 01 2022 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.

**Electrical Power Systems** Jun 04 2020 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.

**Principles of Power System** Oct 09 2020 The subject of power systems has assumed considerable importance in recent years and growing demand for a compact work has resulted in this book. A new chapter has been added on Neutral Grounding.

**Electric Machinery Fundamentals** Jul 06 2020 Electric Machinery Fundamentals continues to be a best-selling machinery text due to its accessible, student-friendly coverage of the important topics in the field. Chapman's clear writing persists in being one of the top features of the book. Although not a book on MATLAB, the use of MATLAB has been enhanced in the fourth edition. Additionally, many new problems have been added and remaining ones modified. Electric Machinery Fundamentals is also accompanied by a website that provides solutions for instructors, as well as source code, MATLAB tools, and links to important sites for students.

**Machine Learning, Optimization, and Data Science** Aug 31 2022 This two-volume set, LNCS 13163-13164, constitutes the refereed proceedings of the 7th International Conference on Machine Learning, Optimization, and Data Science, LOD 2021, together with the first edition of the Symposium on Artificial Intelligence and Neuroscience, ACAIN 2021. The total of 86 full papers presented in this two-volume post-conference proceedings set was carefully reviewed and selected from 215 submissions. These research articles were written by leading scientists in the fields of machine learning, artificial intelligence, reinforcement learning, computational optimization, neuroscience, and data science presenting a substantial array of ideas, technologies, algorithms, methods, and applications.

**Advances in Intelligent Data Analysis XIX** Nov 29 2019 This book constitutes the proceedings of the 19th International Symposium on Intelligent Data Analysis, IDA 2021, which was planned to take place in Porto, Portugal. Due to the COVID-19 pandemic the conference was held online during April 26-28, 2021. The 35 papers included in this book were carefully reviewed and selected from 113 submissions. The papers were organized in topical sections named: modeling with neural networks; modeling with statistical learning; modeling language and graphs; and modeling special data formats.

**Electrical Machines - I** Jul 26 2019 The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage of the magnetic circuits, magnetic materials, single and three phase transformers and d.c. machines. The book is structured to cover the key aspects of the course Electrical Machines - I. The book starts with the explanation of basics of magnetic circuits, concepts of self and mutual inductances and important magnetic materials. Then it explains the

fundamentals of single phase transformers including the construction, phasor diagram, equivalent circuit, losses, efficiency, methods of cooling, parallel operation and autotransformer. The chapter on three phase transformer provides the detailed discussion of construction, connections, phasor groups, parallel operation, tap changing transformer and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems. Then the book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics, parallel operation and applications. The book also includes the details of d.c. motors such as characteristics, types of starters, speed control methods, electric braking and permanent magnet d.c. motors. Finally, the book covers the various testing methods of d.c. machines including Swinburne's test, brake test, retardation test and Hopkinson's test. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self-explanatory diagrams and variety of solved problems. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

*Principles of Electrical Machines* Apr 02 2020 For over 15 years "*Principles of Electrical Machines*" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

*A Textbook of Strength of Materials* Sep 07 2020

*Fundamentals of Electrical Engineering* Nov 02 2022

*The Killing of Osama Bin Laden* Jun 16 2021 Electrifying investigation of White House lies about the assassination of Osama bin Laden In 2011, an elite group of US Navy SEALs stormed an enclosure in the Pakistani city of Abbottabad and killed Osama bin Laden, the man the United States had begun chasing before the devastating attacks of 9/11. The news did much to boost President Obama's first term and played a major part in his reelection victory of the following year. But much of the story of that night, as presented to the world, was incomplete, or a lie. The evidence of what actually went on remains hidden. At the same time, the full story of the United States' involvement in the Syrian civil war has been kept behind a diplomatic curtain, concealed by doublespeak. It is a policy of obfuscation that has compelled the White House to turn a blind eye to Turkey's involvement in supporting ISIS and its predecessors in Syria. This investigation, which began as a series of essays in the *London Review of Books*, has ignited a firestorm of controversy in the world media. In his introduction, Hersh asks what will be the legacy of Obama's time in office. Was it an era of "change we can believe in" or a season of lies and compromises that continued George W. Bush's misconceived War on Terror? How did he lose the confidence of the general in charge of America's forces who acted in direct contradiction to the White House? What else do we not know?