

---

# Electrical Power System Ashfaq Hussain Books Theory

---

Electrical Power Systems, 5e (PB)  
Fundamentals of Power System Protection  
Electrical Engineering Principles  
A Course In Electrical Power  
A Textbook of Electronic Circuits  
Electrical Power Systems  
Network Analysis & Synthesis (Including Linear System Analysis)  
A Textbook of Electrical Technology - Volume IV  
Electric and Hybrid Vehicles  
Principles of Electrical Machines  
Power System Analysis  
Intelligent Computing Techniques for Smart Energy Systems  
Electrical Power System Protection  
Foundations of Analog and Digital Electronic Circuits  
Electrical Power System Analysis  
Numerical Modelling and Design of Electrical Machines and Devices  
Theory & Performance Of Electrical Machines  
Modern Power Electronics  
Fundamentals of Electrical Drives  
Networks and Systems  
Electrical Power System  
SPECIAL ELECTRICAL MACHINES  
Fundamentals of Electrical Power Systems Analysis  
Circuit Analysis  
Power System Analysis  
Switchgear and Protection  
Principles of Power System (LPSPE)  
Electrical Power Systems  
Power System Protection and Switchgear  
Elements of Production Planning and Control  
Electric Machinery and Transformers  
Electrical Power System  
A Course In Power Systems  
ELECTRICAL ENGINEERING FUNDAMENTALS.  
Comprehensive Dictionary of Electrical Engineering  
Basic Electrical Engineering  
Power Electronics  
Electrical Power Systems

Control Systems (As Per Latest Jntu Syllabus)  
Electric Machines

*Electrical Power System Ashfaq Hussain Books Theory*

Downloaded from [archive.imba.com](http://archive.imba.com) by guest

---

## JULISSA JOHNS

---

*Electrical Power Systems, 5e (PB)* New Age International

This text provides an overview of numerical field computational methods and, in particular, of the finite element method (FEM) in magnetics. Detailed attention is paid to the practical use of the FEM in designing electromagnetic devices such as motors, transformers and actuators. Based on the authors' extensive experience of teaching numerical techniques to students and design engineers, the book is ideal for use as a text at undergraduate and graduate level, or as a primer for practising engineers who wish to learn the fundamentals and immediately apply these to actual design problems. Contents: Introduction; Computer Aided Design in Magnetics; Electromagnetic Fields; Potentials and Formulations; Field Computation and Numerical Techniques; Coupled Field Problems; Numerical Optimisation; Linear System Equation Solvers; Modelling of Electrostatic and Magnetic Devices; Examples of Computed Models.

**Fundamentals of Power System Protection** S. Chand Publishing

A Textbook of Electrical Technology (Vol. IV) Multicolor pictures have been added to enhance the content value and give to the students an idea of what he will be dealing in reality and to bridge the gap between theory and practice. A notable feature is the inclusion of chapter on Flip-Flops and related Devices as per latest development in the subject. Latest tutorial problems and objective type questions specially for GATE have been included at relevant places.

**Electrical Engineering Principles** Springer Science & Business Media

Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general.

Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

**A Course In Electrical Power** New Age International

The foremost and primary aim of the book is to meet the requirements of students of Anna University, Bharathidasan University, Mumbai University as well as B.E. / B.Sc of all other Indian Universities.

*A Textbook of Electronic Circuits* McGraw-Hill Companies

This is an introduction to power system analysis and design. The text contains fundamental concepts and modern topics with applications to real-world problems, and integrates MATLAB and SIMULINK throughout.

**Electrical Power Systems** S. Chand

This book covers the topic from introductory to advanced levels for undergraduate students of Electrical Power and related fields, and for professionals who need a fundamental grasp of power systems engineering. The book also analyses and simulates selected power circuits using appropriate software, and includes a wealth of worked-out examples and practice problems to enrich readers' learning experience. In addition, the exercise problems provided can be used in teaching courses.

*Network Analysis & Synthesis (Including Linear System Analysis)* Elsevier

I may observe that recent developments in power electronics have proceeded in two different directions, namely, low power range power supplies using high frequency PWM technique and

medium to high power range energy control systems to serve specific Purpose.

*A Textbook of Electrical Technology - Volume IV* S. Chand Publishing

Presents the most relevant concepts and techniques in power system protection. This second edition offers a new chapter on circuit breakers to further strengthen the text and meet the curriculum needs of universities. It includes around 300 well-annotated figures and numerous tables.

*Electric and Hybrid Vehicles* CRC Press

This book covers the complete syllabi prescribed for undergraduate courses in electrical, electronics, mechanical and instrumentation engineering offered by various Indian universities. The objective of this text is to provide thorough knowledge in the emerging field of special electrical machines. It discusses the stepper motor, switched reluctance motor, permanent magnet dc and ac motors, brushless dc motors, single phase special electric motors, servomotors, linear electric machines and permanent magnet axial flux machines. Key Features • Chapter on permanent magnet axial flux machines (not available in other Indian authors' books) • Numerous worked-out examples • Based on classroom tested materials • Simplified mathematical analysis Besides undergraduate students, the book will also be useful to the postgraduate students specialising in drives and control, power electronics, control systems and mechatronics.

*Principles of Electrical Machines* PHI Learning Pvt. Ltd.

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.

*Power System Analysis* Oxford University Press, USA

The functioning of a power system depends significantly on

efficient and reliable protection schemes. With enhanced course coverage and refreshed pedagogy, the revised edition of Power System Protection and Switchgear discusses the contemporary protection system, now infused with new and innovative technology.

### **Intelligent Computing Techniques for Smart Energy Systems** McGraw-Hill

This book will give readers a thorough understanding of the fundamentals of power system analysis and their applications. Both the basic and advanced topics have been thoroughly explained and supported through several solved examples. Important Features of the Book: Load Flow and Optimal System Operation have been discussed in detail. Automatic Generation Control (AGC) of Isolated and Interconnected Power Systems have been discussed and explained clearly. AGC in Restructured Environment of Power System has been Introduced. Sag and Tension Analysis have been discussed in detail. Contains over 150 illustrative examples, practice problems and objective-type questions, that will assist the reader. With all these features, this is an indispensable text for graduate and postgraduate electrical engineering students. GATE, AMIE and UPSC engineering services along with practicing engineers would also find this book extremely useful.

*Electrical Power System Protection* McGraw-Hill Series in Electric 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.

Foundations of Analog and Digital Electronic Circuits S. Chand Publishing

Principles of Power System is a comprehensive textbook for students of engineering. It also caters to the requirements of those readers who wish to increase their knowledge and gain a sound grounding in power systems as a whole. Twenty six

chapters succinctly sum up the subject with topics such as Supply and Distribution Systems, Fault Calculations (Symmetrical and Unsymmetrical), Voltage Control, Fuses and Circuit Breakers giving the learner an understanding of the subject and an orientation to apply the knowledge gained in real world problem solving. A book which has seen, foreseen and incorporated changes in the subject for more than 30 years, it continues to be one of the most sought after texts by the students.

**Electrical Power System Analysis** New Age International A thoroughly revised third edition of this widely praised, bestselling textbook presents a comprehensive systems-level perspective of electric and hybrid vehicles with emphasis on technical aspects, mathematical relationships and basic design guidelines. The emerging technologies of electric vehicles require the dedication of current and future engineers, so the target audience for the book is the young professionals and students in engineering eager to learn about the area. The book is concise and clear, its mathematics are kept to a necessary minimum and it contains a well-balanced set of contents of the complex technology. Engineers of multiple disciplines can either get a broader overview or explore in depth a particular aspect of electric or hybrid vehicles. Additions in the third edition include simulation-based design analysis of electric and hybrid vehicles and their powertrain components, particularly that of traction inverters, electric machines and motor drives. The technology trends to incorporate wide bandgap power electronics and reduced rare-earth permanent magnet electric machines in the powertrain components have been highlighted. Charging stations are a critical component for the electric vehicle infrastructure, and hence, a chapter on vehicle interactions with the power grid has been added. Autonomous driving is another emerging technology, and a chapter is included describing the autonomous driving system architecture and the hardware and software needs for such systems. The platform has been set in this book for system-level simulations to develop models using various softwares used in academia and industry, such as MATLAB®/Simulink, PLECS, PSIM, Motor-CAD and Altair Flux. Examples and simulation results are provided in this edition using these software tools. The third edition is a timely revision and contribution to the field of electric vehicles that has reached recently notable markets in a more and more environmentally

sensitive world.

*Numerical Modelling and Design of Electrical Machines and Devices* Springer Science & Business Media

Encouraged by the response to the first edition and to keep pace with recent developments, Fundamentals of Electrical Drives, Second Edition incorporates greater details on semi-conductor controlled drives, includes coverage of permanent magnet AC motor drives and switched reluctance motor drives, and highlights new trends in drive technology. Contents were chosen to satisfy the changing needs of the industry and provide the appropriate coverage of modern and conventional drives. With the large number of examples, problems, and solutions provided, Fundamentals of Electrical Drives, Second Edition will continue to be a useful reference for practicing engineers and for those preparing for Engineering Service Examinations.

*Theory & Performance Of Electrical Machines* Springer Nature 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.

Modern Power Electronics KHANNA PUBLISHING HOUSE

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.

**Fundamentals of Electrical Drives** S. Chand Publishing

This text provides an introduction to the field of power electronics, emphasizing real-world applications. It covers topics such as: power quality and vector control; power semiconductor

devices; multiphase choppers and PWM inverters; and adjustable speed AC and DC motor drives.

**Networks and Systems** New Age International

Focuses on the first control systems course of BTech, JNTU, this book helps the student prepare for further studies in modern control system design. It offers a profusion of examples on various aspects of study.

Related with Electrical Power System Ashfaq Hussain Books Theory:

- Flag Officer Sea Training : [click here](#)