

Syllabus 4th Sem Electrical Engineering

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Theory of Alternating-current Machinery John Wiley & Sons

The only treatment of ethics from a scientific and engineering perspective. The pursuit of science and engineering requires freedom of thought and, in the academic sense, unrestricted communication. It is through the professionalism of the members of these disciplines that world knowledge and technology advances. Yet there are continuous reports of unethical behavior in the forms of data manipulation, cheating, and plagiarism at the highest levels. The motivations for this behavior are varied, such as the need to advance one's career or to obtain research funding. This book gives an account of scientific and engineering disciplines and examines the potential for unethical behavior by professionals. Documented examples are presented to show where the matter could have been halted before it became an unethical issue. The authors also look to the future to see what is in store for professionals in science and engineering and how the potential for unethical behavior can be negated.

Elements of Environmental Pollution Control McGraw-Hill Science, Engineering & Mathematics

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.

Machine Drawing with AutoCAD Elsevier

The second edition of Power System Analysis serves as a basic text for undergraduate students of electrical engineering. It provides a thorough understanding of the basic principles and techniques of power system analysis as well as their application to real-world problems. Beginning with the basic concepts, the book gives an exhaustive coverage of transmission line parameters, simulation of power system elements, steady-state performance and travelling wave phenomena on transmission lines, symmetrical and unsymmetrical fault analyses, power flow studies, power system control, and stability analysis. The book extensively illustrates the use of MATLAB in the analysis of power systems. Owing to its lucid style and presentation of advanced topics, the book will be useful to postgraduate students as also to practising engineers.

Australia PHI Learning Pvt. Ltd.

Containing approximately 200 problems (100 worked), the text covers a wide range of topics concerning electrical machines, placing particular emphasis upon electrical-machine drive applications. The theory is concisely reviewed and focuses on features common to all machine types. The problems are arranged in order of increasing levels of complexity and discussions of the solutions are included where appropriate to illustrate the engineering implications. This second edition includes

an important new chapter on mathematical and computer simulation of machine systems and revised discussions of unbalanced operation, permanent-magnet machines and universal motors. New worked examples and tutorial problems have also been added. **Principles of Power System (LPSPE)** McGraw-Hill Companies

This book is the result of the extensive experience the authors gained through their year-long occupation at the Faculty of Electrical Engineering at the University of Banja Luka. Starting at the fundamental basics of electrical engineering, the book guides the reader into this field and covers all the relevant types of converters and regulators. Understanding is enhanced by the given examples, exercises and solutions. Thus this book can be used as a textbook for students, for self-study or as a reference book for professionals.

B.Sc. Practical Physics KHANNA PUBLISHING HOUSE
Part of the McGraw-Hill Core Concepts Series, Modern Digital Electronics is an ideal textbook for a course on digital electronics at the undergraduate level. The text introduces digital systems and techniques through a bottom-up approach that allows users to start out with the basics of integrated circuits/circuit design and delve into topics such as digital design, flip flops, A/D and D/A. The book then moves on to explore elements of complex digital circuits with material like FPGAs, PLDs, PLAs, and more. Rich pedagogical features include review questions with answers, a glossary of key terms, a large number of solved examples, and numerous practice problems. This is a concise, less expensive alternative to other digital logic designs. This series is edited by Dick Dorf.

A Textbook of Electrical Technology - Volume II New Age International

The All-in-one Electronics Simplified is comprehensive treatise on the whole gamut of topics in Electronics in Q & A format. The book is primarily intended for undergraduate students of Electronics Engineering and covers six major subjects taught at the undergraduate level students of Electronics Engineering and covers six major subjects taught at the undergraduate level including Electronic Devices and Circuits, Network Analysis, Operational Amplifiers and Linear Integrated Circuits, Digital Electronics, Feedback and Control Systems and Measurements and Instrumentation. Each of the thirty chapters is configured as the Q&A part followed by a large number of Solved Problems. A comprehensive Self-

Evaluation Exercise comprising multiple choice questions and other forms of objective type exercises concludes each chapter.

Proceedings of the San Diego Symposium for Biomedical Engineering Pearson Education India

Control of Machines is one of the most important functional areas for electrical and mechanical engineers working in industry. In this era of automation and control, every engineer has to acquaint himself on the design installation, and maintenance of control systems. This subject must find its place as a compulsory applied engineering subject in degree and diploma curriculum. Some progressive states and autonomous institutions have already introduced this subject in their curriculum. In this book, static control and programmable controllers have been included keeping in view the latest developments in modern industry. Relay and static control have been dealt with in details. Most of the control circuits included in this book have been taken from Indian industry. A chapter has been devoted to protection of motors and troubleshooting in control circuits. The chapter on PLC has been made very elaborate to deal with all aspects of logic controllers. Review questions have been included at the end of each chapter. The explanations of circuits and design procedure of control circuits have been made very simple to help students understand easily. Students, teachers and shop floor and design office engineers will find this book a very useful companion.

Electrical Machines-I (Mdu) Laxmi Publications

The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students. Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It

provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter. As the book requires only an elementary knowledge of electronics to understand most of the topics, it can also serve as a textbook for the students of polytechnics, B.Sc. (Electronics) and B.Sc. (Computer Science). NEW TO THIS EDITION Now, based on the readers' demand, this new edition incorporates VERILOG programs in addition to VHDL programs at the end of each chapter. *Introduction to Environmental Engineering and Science* Oxford University Press, USA
Electrical Drawing Is An Important Engineering Subject Taught To Electrical/Electronics Engineering Students Both At Degree And Diploma Level Institutions. The Course Content Generally Covers Assembly And Working Drawings Of Electrical Machines And Machine Parts, Drawing Of Electrical Circuits, Instruments And Components. The Contents Of This Book Have Been Prepared By Consulting The Syllabus Of Various State Boards Of Technical Education As Also Of Different Engineering Colleges. This Book Has Nine Chapters. Chapter I Provides Latest Informations About Drawing Sheets, Lettering, Dimensioning, Method Of Projections, Sectional Views Including Assembly And Working Drawings Of Simple Electrical And Mechanical Items With Plenty Of Solved Examples. The Second Chapter Deals With Drawing Of Commonly Used Electrical Instruments, Their Method Of Connection And Of Instrument Parts. Chapter Iii Deals With Mechanical Drawings Of Electrical Machines And Machine Parts. The Details Include Drawings Of D.C. Machines, Induction Machines, Synchronous Machines, Fractional Kw Motors And Transformers. Chapter Iv Includes Panel Board Wiring Diagrams. The Fifth Chapter Is Devoted To Winding Diagrams Of D.C. And A.C. Machines. Chapter Vi And Vii Include Drawings Of Transmission And Distribution Line Accessories, Supports, Etc. As Also Plant And Substation Layout Diagrams. Miscellaneous Drawing Like Drawings Of Earth Electrodes, Circuit Breakers, Lighting Arresters, Etc. Have Been Dealt With In Chapter Viii. Graded Exercises With Feedback On Reading And Interpreting Engineering Drawings Covering The Entire Course Content Have Been Included In Ix Providing Ample Opportunities To The Learner To Practice On Such Graded Exercises And

Receive Feedback. Chapter X Includes Drawings Of Electronic Circuits And Components. This Book, Unlike Some Of The Available Books In The Market, Contains A Large Number Of Solved Examples Which Would Help Students Understand The Subject Better. Explanations Are Very Simple And Easy To Understand. Reference To Norms And Standards Have Been Made At Appropriate Places. Students Will Find This Book Useful Not Only For Passing Examinations But Even More In Reading And Interpreting Engineering Drawings During Their Professional Career.

Power System Analysis McGraw-Hill

Appropriate for undergraduate engineering and science courses in Environmental Engineering. Balanced coverage of all the major categories of environmental pollution, with coverage of current topics such as climate change and ozone depletion, risk assessment, indoor air quality, source-reduction and recycling, and groundwater contamination.

A Text-book of Electrical Technology in S.I. System of Units S. Chand Publishing

A multicolor edition of Vol.II of A Textbook of Electrical Technology to keep pace with the ever-increasing scope of essential and modern technical information, the syllabi are frequently revised. This often results into compressing established facts to accommodate recent information in the syllabi. Fields of power-electronics and industrial power-conditioners have grown considerably resulting into changed priority of topics related to electrical machines. Switched reluctance-motors tend to threaten the most popular squirrel-cage induction motors due to their increased ruggedness, better performance including controllability and equal ease with which they suit rotary as well as linear-motion-applications.

Performance & Design A.C. Machines S. Chand Publishing

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.

Electrical Machines-I McGraw-Hill
Science/Engineering/Math

The educational system of Australia is described, and placement recommendations concerning Australian students who want to study in the United States are presented. After describing preschool and primary education, secondary education in the following provinces/territories is

considered: New South Wales, Victoria, Queensland, South Australia, Western Australia, Tasmania, the Australian Capital Territory, and the Northern Territory. The universities and the colleges of advanced education (CAE) are compared, and information is provided on admission, degrees and diplomas, courses, grades, educational quality, and documents and certificates. Degrees, grading, quality, and documents in technical and further education are also considered, along with teaching qualifications and teaching documents and certificates. Preparation and qualifications for the following professional programs are addressed: nursing education, music and speech/drama education, theological education, and professional associations. Appendices include: a profile of Australian postsecondary institutions, New South Wales secondary mathematics and sciences syllabi; and comparative data on university versus CAE Bachelor of Engineering Courses. (SW)

A Textbook of Engineering Mathematics (MTU, Noida) Sem-I S. Chand Publishing

For close to 30 years, "Basic Electrical Engineering" has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

All-in-One Electronics Simplified S. Chand Publishing

B.Sc. Practical Physics

Workshop Practice Manual Tata McGraw-Hill Education

This book will cater to the needs of students who want to pursue a Diploma in Engineering, Degree in Engineering (B.Tech/B.E., B.Sc.(Engg.)) students. Postgraduate degree in Engineering (M. Tech, M.E.) students. AMIE (Associate membership of Indian Institute of Metals) examination. AMIChE (Associate Membership of Indian Institute of Chemical Engineers) examination. AIC (Associateship of Institute of Chemist) examination. Practicing engineers in the field of environmental engineering. Environmental engineering professionals.

Control Systems Springer

"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.

Ethics in Science and Engineering S. Chand Publishing

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Digital Instrumentation New Age International

Worksheets are included to act as observation book for taking readings. Tips on practical application of the tools and instruments are given Adages found in each page are unique for motivation and personality development of the students Illustrations of the tools used in various sections of workshop are provided