

Fundamentals of Electrical and Electronics Engineering (With lab Manual)

Author: Saji T. Chacko

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Product Description

"Fundamentals of Electrical & Electronics Engineering" is a compulsory paper for the first year Diploma course in Engineering & Technology Syllabus of this book is strictly aligned as per model curriculum of AlCTE, and academic content is amalgamated with the concept of outcome based education. Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written is easy and lucid manner. A set of exercises at the end of each units to test the student's comprehension is provided. Some salient features of the book: 1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. 2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity. 3. Book provides lots of vital facts, concepts, principles and other interesting information. 4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided. 5. Student and teacher centric course materials included in book in balanced manner. I6. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics. 7. Objective questions and subjective questions are given for practices of students at the end of each unit. Solved and unsolved problems including numerical examples are solved with systematic steps



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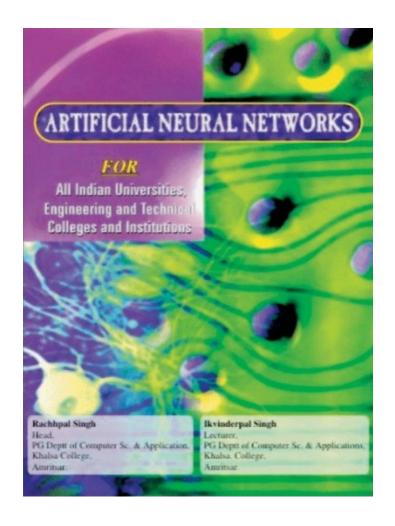
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Artificial Neural Networks

Author: Ikvinderpal Singh

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Product Description

Written with the beginner in mind, this volume offers an exceptionally clear and thorough introduction to neural network at an elementary level. It provides the clear survey of basic neural network architectures and learning rules. In it, We emphasize mathematical analysis of networks, methods for training network, and application of neural network to practical engineering problems in speech recognition, stock market prediction and pattern recognition.

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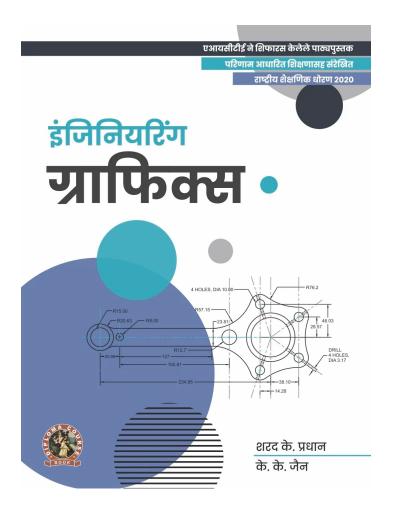
Chapter 1: Fundamentals of Neural Networks. Chapter 2: Perceptrons. Chapter 3: Backpropagation. Chapter 4: Adaline and Madaline. Chapter 5: Supervised and Unsupervised Learning. Chapter 6: Counter-propagation Network. Chapter 7: Adaptive Resonance Theory. Chapter 8: Neocognitron. Chapter 9: Bidirectional Associative Memory. Chapter 10: Case Studies.



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Engineering Graphics

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Product Description

"Engineering Graphics" is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education. Book covers six topics- Basic Elements of drawing, Orthographic Projections, Isometric Projections, Free Hand Sketcher of Engineering Elements, Computer Aided Drafting Interface, Computer Aided Drafting. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test the student's comprehension. Some salient features of the book: 1. Content of the book is aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. 2. In start of each unit learning outcomes are listed to make the student understand what is expected out of him/ her after completing that unit. 3. Book provides lots of recent information, interesting facts, Codes for E-resources, QR Code for use of ICT, projects, group discussion etc. 4. Student and teacher centric subject materials included in book with balanced and chronological manner. 5. Figures, tables and software screen shots are inserted to improve clarity of the topics. 6. Apart from essential information a 'Know More' section is also provided in each unit to extend the learning beyond syllabus. 7. Short questions, objective questions and long answer exercises are given for practice of students after every chapter. 8. Solved and unsolved problems including numerical examples are solved with systematic step.

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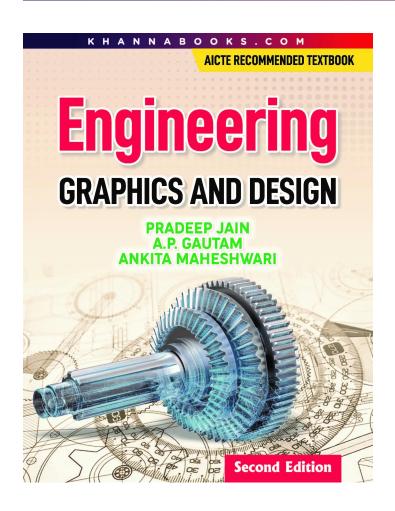
Foreword, Acknowledgement, Preface, Outcome Based Educations, Course Outcomes, Abbreviations and Symbols, List of Figures, List of tables Guidelines for Teachers, Guidelines for Students UNIT 1:

Basic Elements of Drawing. UNIT 2: Orthographic Projections. UNIT 3: Isometric Projections. UNIT 4: Free Hand Sketches of Engineering Elements. UNIT 5: Computer Aided Drafting Interface. UNIT 6: Computer Aided Drafting.

Authors

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Engineering Graphics and Design

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Product Description

This book covers complete syllabus of Engineering Graphics and Design along with AUTOCAD catering requirements of B.Tech. in Engineering The book is in easy to understand, simple English. It provides step-by-step solutions to problems along with suitable example and proper drawings. Using AutoCAD and Solid Work. All chapter make learning easy with unique features such as Summary, Solved examples and Practice Problems. Chapters have been organized to present data in concise format with suitable tables, diagrams, drawings and illustration.



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Authors

A.P. Gautam has more than five year of experience in teaching and industry. He is also providing solutions in engineering design. Presently he is working in HI Tech Institute of Engineering Technology. **Pradeep Jain** has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field. **Ankita Maheshwari**

