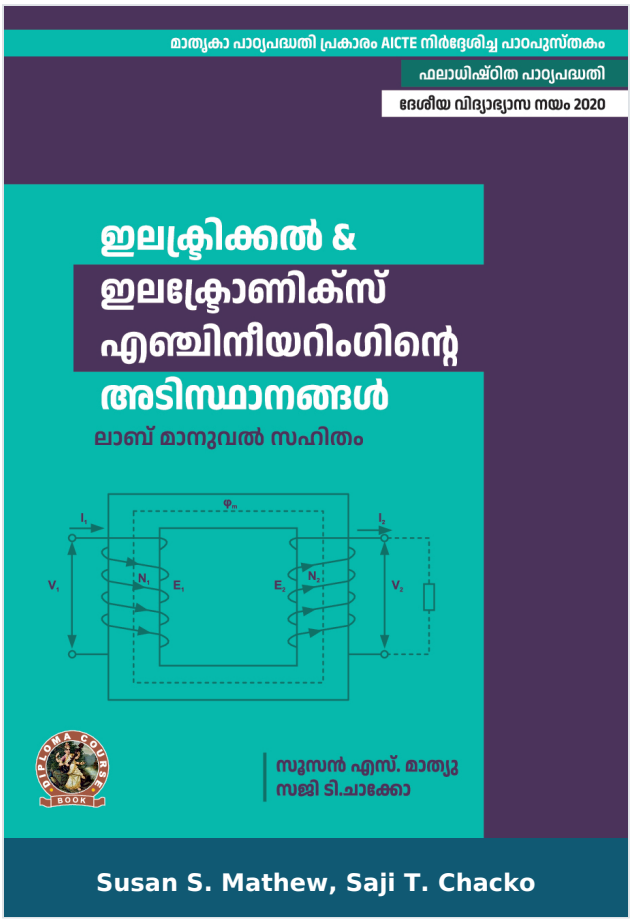


Fundamentals of Electrical and Electronics Engineering (With lab Manual)

Author :	Susan S. Mathew, 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 AICTE, 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.

l6. 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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- Reference for Further Learning
- Co and PO Attainment Table
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Author

Susan S. Mathew

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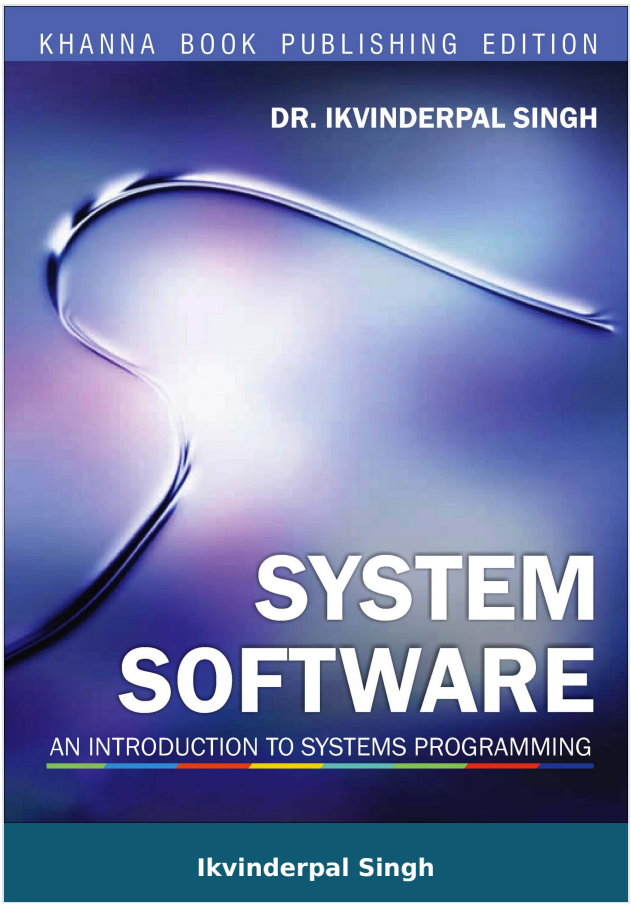
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System Software

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Product Description

Fundamental concepts are introduced in simple terms, Numerous examples are included to illustrate concepts and techniques. The sequence of topics is well planned to provide a seamless transition from design to implementation. Fundamental concepts and basic design of each type of software in a machine-independent way. With each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. The exercises can be found at the end each chapter. Other sections are devoted to DBMS, text editor and interactive debugging systems.

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- Macro Processors
- Compilers
- Loaders And Linkage Editors
- Operating System
- System Software Tools

Author

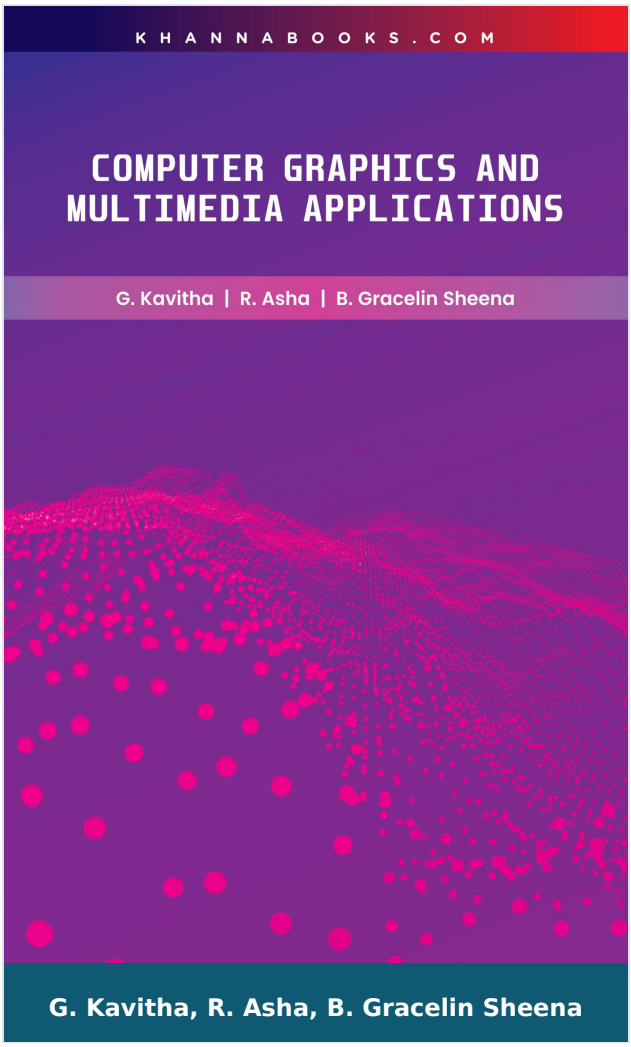
Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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Computer Graphics And Multimedia Applications

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Product Description

Computer Graphics And Multimedia Applications

This comprehensive textbook, Computer Graphics and Multimedia Applications, serves as an essential guide to the theoretical foundations and practical implementations of modern digital visualization and interactive media. Designed to bridge the gap between abstract computer science concepts and tangible real-world applications, the book offers a deep dive into the architecture of graphics systems, from the evolution of display devices—including Cathode Ray Tubes (CRT), Raster Scan, and contemporary Flat Panel Displays like LCD and Plasma—to the mathematical precision required for rendering.

The core theme revolves around mastering the generation and manipulation of visual data, covering crucial Output Primitives like line and circle drawing, with a meticulous comparison of efficient rasterization techniques such as the DDA and Bresenham's algorithms. Beyond 2D, the text meticulously explores advanced three-dimensional concepts, including various projection methods, detailed illumination and shading models (Lambertian, Phong), and sophisticated techniques for visible surface detection and texture mapping.

Crucially, the book seamlessly integrates these graphics principles with an in-depth exploration of Multimedia Applications, detailing core components, compression standards like JPEG and MPEG, audio/video processing, and animation techniques such as tweening and cel animation. This makes it an invaluable resource for undergraduate and postgraduate students in computer science and engineering, as well as professionals and researchers seeking to build foundational and practical expertise in digital design, interactive systems, and digital media development.

Salient Features

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- **Optimized Drawing Algorithms**: Features a comparative analysis of the DDA and Bresenham’s algorithms, emphasizing the use of simple integer arithmetic for high-speed, accurate line and circle rasterization.
- **Display Device Technology**: Explores the mechanics and history of graphical output, covering Cathode Ray Tube (CRT) operation, Refresh CRTs, and modern Flat Panel Displays including Plasma and LCD.
- **Core 3D Visualization**: Provides an in-depth look at three-dimensional concepts such as Parallel and Perspective Projection, equipping the reader with knowledge to transform 3D scenes onto a 2D view plane.
- **Advanced Shading Models**: Detailed sections on rendering realism through illumination, covering techniques like Lambertian and Phong shading, and methods for generating realistic shadow effects on surfaces.
- **Multimedia Compression Standards**: Dedicated unit on digital media technology explaining crucial compression techniques like JPEG and MPEG, including their underlying Discrete Cosine Transform (DCT) and motion-compensation logic.
- **Graphics System Architecture**: Comprehensive overview of the components of a typical graphics system, detailing various input devices (e.g., mouse, trackball, digitizer) and hard-copy devices (printers, plotters).
- **Practical Animation Techniques**: Covers the core principles of creating motion, outlining the process of tweening (in-betweening) to generate fluid animation frames, alongside Cel Animation methods.

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- 3D Concepts and Fractal Geometry
- Visible Surface Detection Methods
- Introduction to Multimedia

Author

G. Kavitha

G. Kavitha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

R. Asha

R. Asha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

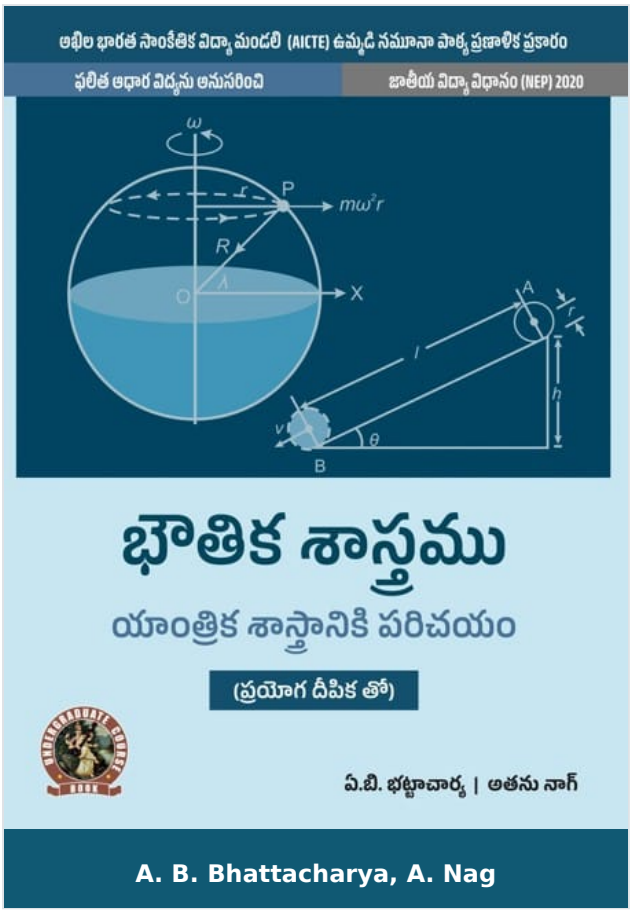
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Physics (Introduction to Mechanics) with Lab Manual

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Product Description

Physics: Introduction to Mechanics has been written for the first year students of B Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student’s needs. Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Mechanics to tackle 21 century and onward engineering challenges and address the related questions.

Some Salient features of the book:

·Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.

·To develop knowledge on critical questions solved and supplementary problems covering all type of medium and advanced level

· Under problems in a very logical and systematic manner.

· Some essential information for the user the heading “Know more” for clarifying some basic information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.

· Constructive manner of presentation so that an Engineering degree students can prepare to work in different sectors or in national laboratories at the very forefront of technology.

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Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

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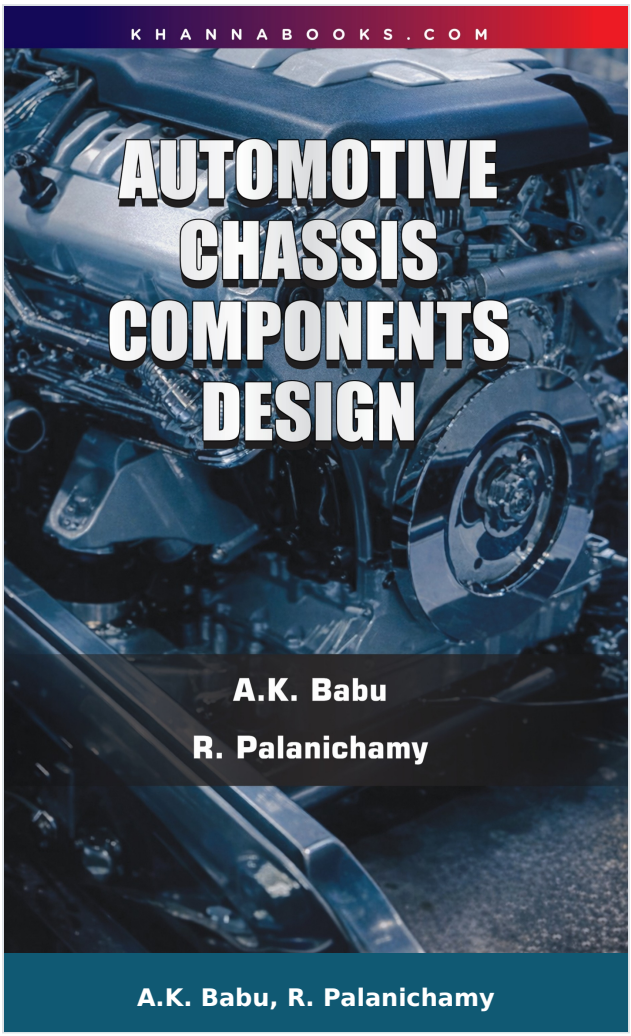
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A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

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Automotive Chassis Components Design

Author :	A.K. Babu, R. Palanichamy
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Product Description

Automotive Chassis Components Design

Automotive Chassis Components Design is a comprehensive academic and professional guide dedicated to the intricate engineering of a vehicle’s skeletal and foundational systems. Authored by A. K. Babu, the text serves as a vital bridge between theoretical mechanics and practical automotive design, focusing on the five basic components that define a modern automobile: the power plant, chassis, power train, body, and accessories. The book provides an in-depth exploration of the “running gear,” including the frame, suspension, steering, brakes, and wheels—systems that directly impact riding comfort, vehicle stability, and safety.

Designed for students of automotive and mechanical engineering, as well as practicing professionals in the automotive industry, the book maintains a rigorous academic tone while ensuring concepts are accessible through detailed diagrams and solved problems. Its core theme revolves around the functional integration of components to withstand dynamic and static loads, optimize maneuverability, and ensure passenger comfort. From the design of heavy-duty truck frames to the precise gear ratios of synchromesh gearboxes, this text provides the analytical tools required to design safe and efficient modern vehicles.

Salient Features:

• **Comprehensive Frame Analysis**: Detailed study of conventional, integral, and semi-integral frames, focusing on materials like carbon steel and their resistance to vertical bending and torsion.

• **Transmission System Engineering**: In-depth coverage of clutch requirements and gearbox types, including sliding mesh, constant mesh, and synchromesh systems for optimized torque delivery.

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• **Driveline Dynamics**: Technical exploration of propeller shafts and universal joints, with a focus on torsional strength, whirling speeds, and critical vibration avoidance.

• **Final Drive Mechanics**: Expert analysis of axle ratios and gear types, such as hypoid and worm-and-wheel drives, to enhance vehicle stability and quiet operation.

• **Axle and Load Design**: Comprehensive design methodologies for front and rear axles, examining load distribution, stresses, and the mechanics of semi-floating vs. full-floating types.

• **Advanced Suspension Systems**: Practical insights into leaf and coil springs, including the design of torsion bars and methods to reduce inter-leaf friction for better handling.

• **Steering Precision**: Rigorous examination of steering geometry, comparing Ackermann and Davis mechanisms to ensure true rolling and minimal tire wear during maneuvers.

• **Applied Problem Solving**: Every chapter is reinforced with design problems, exercise questions, and multiple-choice questions to test both theoretical knowledge and practical application.

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- gearbox
- Driveline
- Final Drive
- Front Axie
- Rear Axie
- Suspension
- Steering

Author

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A.K. Babu A.K.Babu is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K.Babu, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K.Babu has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

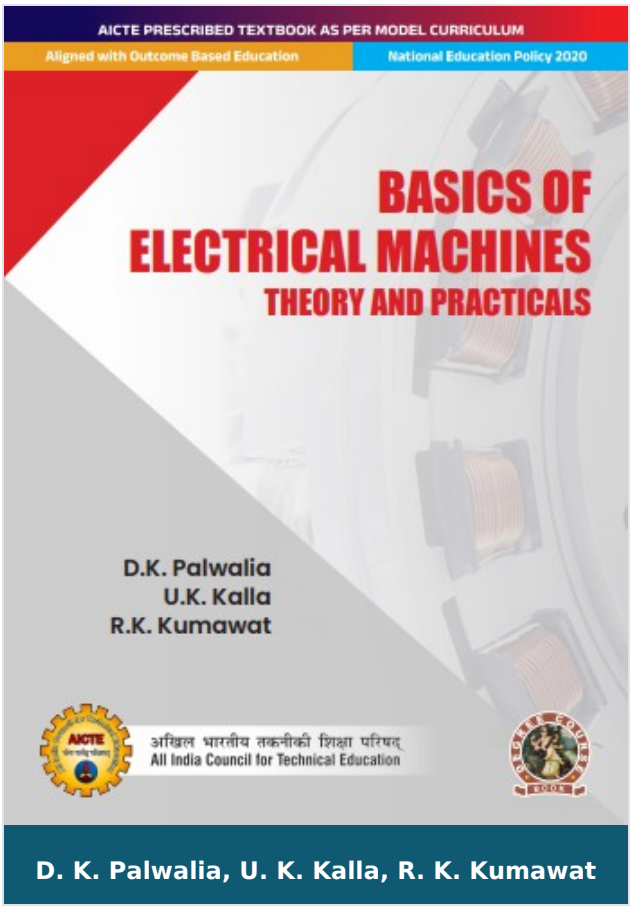
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Basics of Electrical Machines: Theory and Practicals

Author :	D. K. Palwalia, U. K. Kalla, R. K. Kumawat
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Product Description

Basics of Electrical Machines: Theory and Practicals

The Basics of Electrical Machines: Theory and Practical" is a comprehensive guide that provides a solid foundation in the principles and practical applications of electric machines. It covers magnetic circuits, electro-mechanical energy conversion, DC motors and generators, and transformers. By exploring these topics, readers gain insights into the fundamental principles of electric machines and their role in various industries. The book strikes a balance between theory and practice, offering clear explanations, examples, case studies, and problem-solving exercises. It aims to equip readers with a comprehensive understanding of electric machines and bridge the gap between theoretical concepts and their practical applications.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'Know More' section is also provided in each unit to extend the learning beyond syllabus.

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- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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Author

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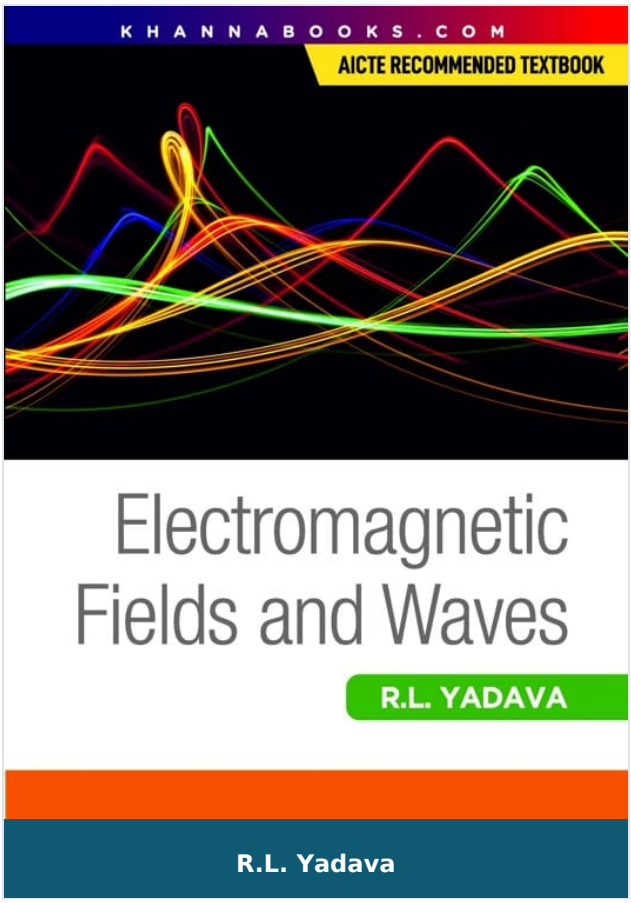
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This book is designed to serve as a textbook for UG and PG students of Electronics and Communication, Electronics and Electrical, Electronics & Instrumentation and Telecommunication Engineering branches. It provides a thorough understanding of the electromagnetic theory and their properties, application and also the modern trends in Electromagnetism in detail. Book also describes transmission lines, wave guides, as well as the effects of EMI/EMC, including impedance matching and antennas. Written in an easy-to-understand manner, the book includes several illustrative examples, objective-type questions and exercise Questions to reinforce the theoretical understanding of subject. Appendices provide information and expressions as well as design data for references.

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- Electrostatic Fields
- Magnetic Static Fields
- Maxwell's Equations and Uniform Plane Wave
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- Waveguides
- Principle of Radiation and Antennas
- Electromagnetic Interference and Compactibility
- Solved Examples
- Objective Question Bank
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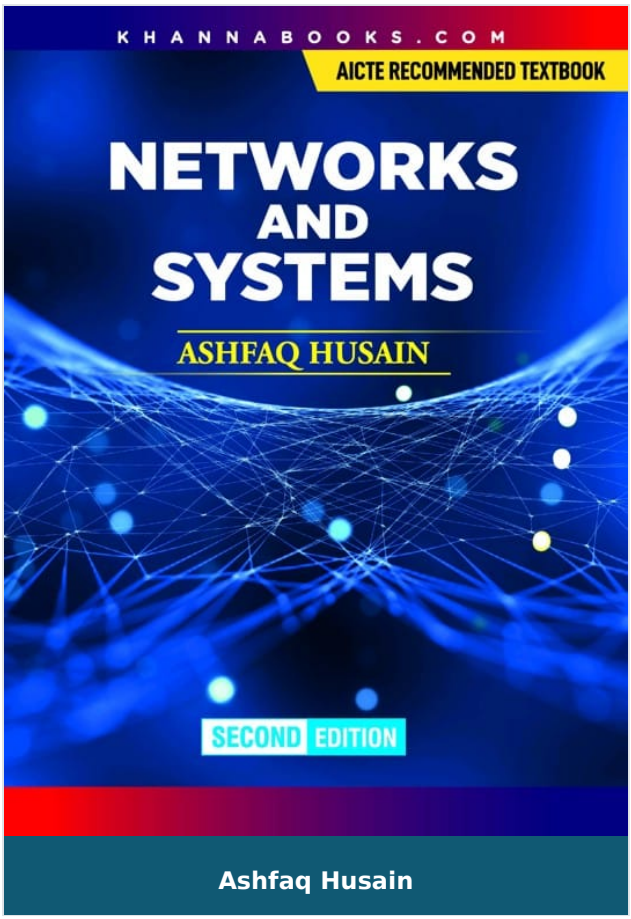
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Product Description

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.

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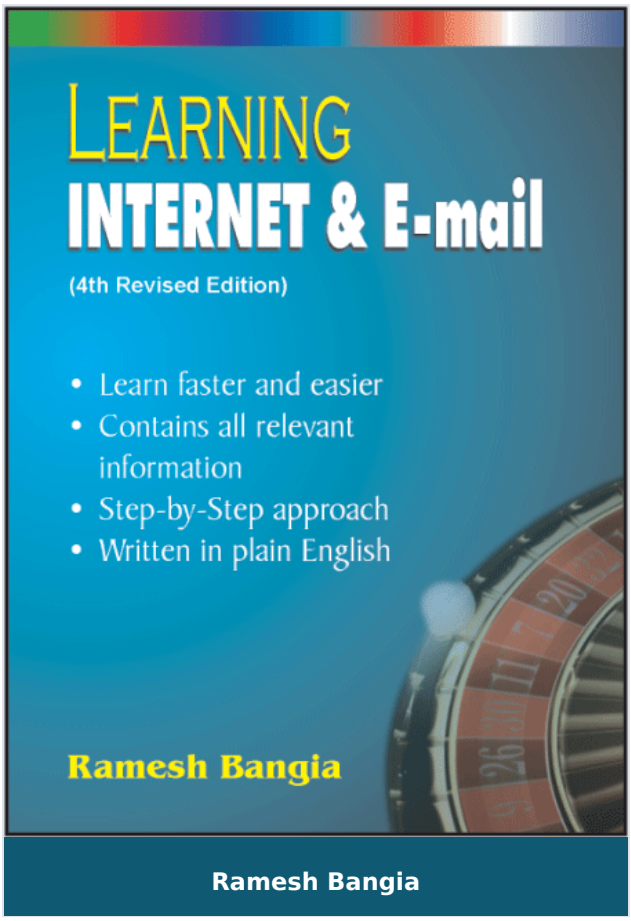
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Ramesh Bangia

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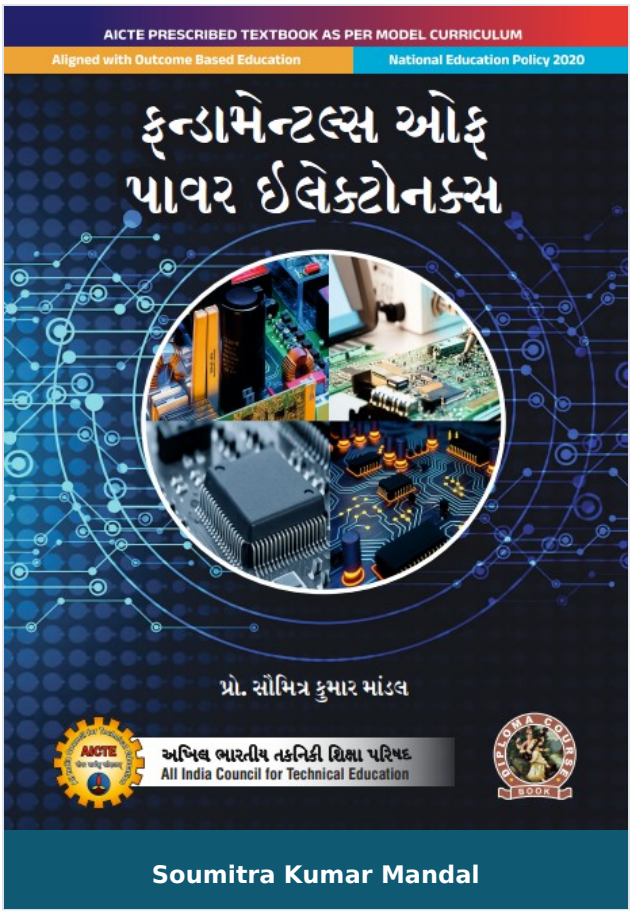
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- Question and Keyboard Shortcuts of Internet Explorer

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even exported to Middle Ease and African countries.



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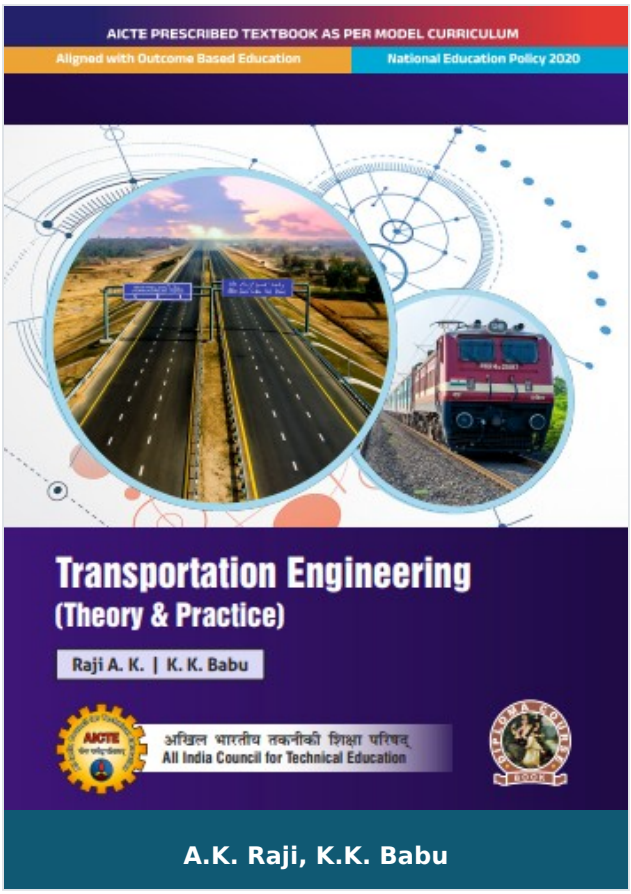
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Transportation Engineering (Theory & Practice)

This book gives a comprehensive coverage of Highway Engineering and Railway Engineering, and is primary intended for the second-year Diploma course under the AICTE curriculum. The contents are designed and presented in simple language and lucid style in line with the principles of implementation of outcome-based education, as per the National Education Policy (NEP)2020.

Salient features:

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- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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