Applied Physics-I (with Lab Manual)

Author :	Mina Talati
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Product Description

“Applied Physic-I” is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this books is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concepts of outcome-based education. Book covers six topics- Physical World, Units and Measurements; Force and Motion; Work, Power and Energy; Rotational Motion; Properties of Matter; Heat and Thermometry. 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 Outcome, Programs Outcomes and Unit Outcomes. 2. Book provides lots of interested facts, QR Code for E-resources, QR Code for use of ICT etc. 3. Students and teacher centric subject materials are included in book with balanced and chronological manner. 4. Figures and tables are inserted to improve clarity of the topics. 5. Short questions, objective questions and long answer exercises of different difficulty levels are given for practice after every chapter. 6. Solved numerical examples are provided with systematic steps in each chapter followed by numerical exercises with hints.

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Physics (Introduction to Mechanics) (with Lab Manual)

Author :	A. B. Bhattacharya
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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:

€ €1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.

€ €2. To develop knowledge on critical questions solved and supplementary problems covering all type of medium and advanced level

€ €3. Under problems in a very logical and systematic manner.

€ €4. Some essential information for the user the

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Prof. A. B. Bhattacharya, Pro-Vice-Chancellor of JIS University, did his M. Sc. and Ph. D. degree in Physics from the University of Calcutta. He did his Post-doc from the Massachusetts Institute of Technology, USA and subsequently joined in the Department of Physics, Kalyani University. He has published 256 Research papers in high-impact Journals and over 150 proceeding papers in conferences. He has successfully guided 24 scholars for their Ph.D. and has written a large number of invited articles in many Journals. He is the author of 29 textbooks written for engineering and science students and also for general readers from many reputed publishers like Infinity Science Press, Taylor & Francis, etc. International Institute of Success Awareness honored him with their most coveted Institutional and globally reputed “Glory of India Gold Medal” for remarkable contributions to India’s national prestige. He is a Life Fellow of the Institution of Electronics and Telecommunication Engineers. **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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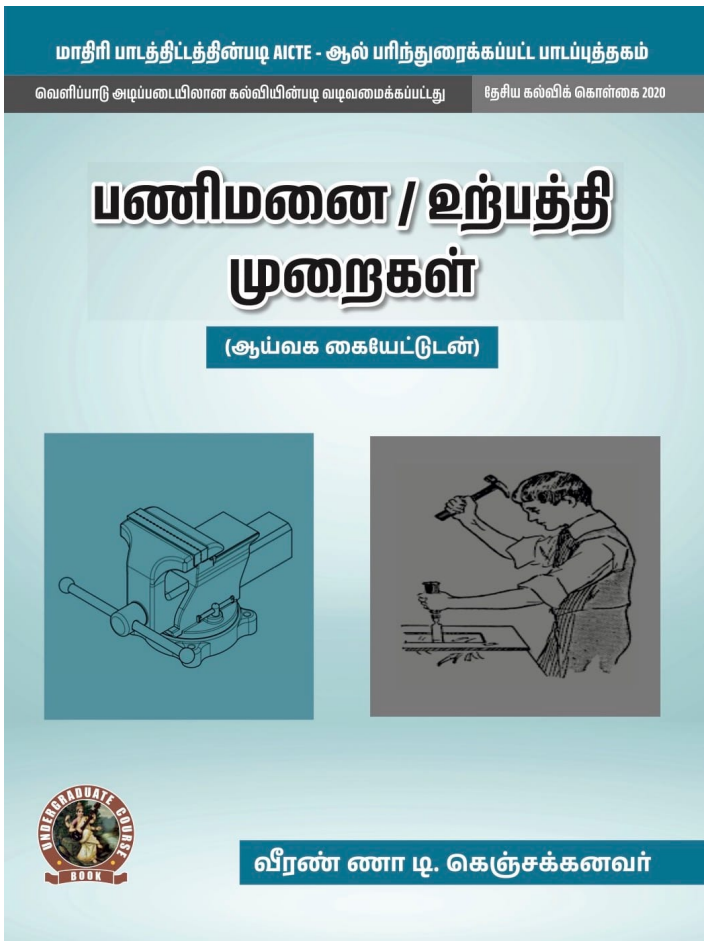

Workshop / Manufacturing Practices (with Lab Manual)

Author :	Veerana D.K.
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Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations. Salient Features: 1. Manufacturing Methods 2. CNC Machining, Additive manufacturing 3. Fitting operations & power tools 4. Electrical & Electronic 5. Carpentry 6. Plastic mounding, glass cutting 7. Metal casting 8. Welding (arc welding & gas welding), brazing 9. Laboratory experiments and models Appendices References

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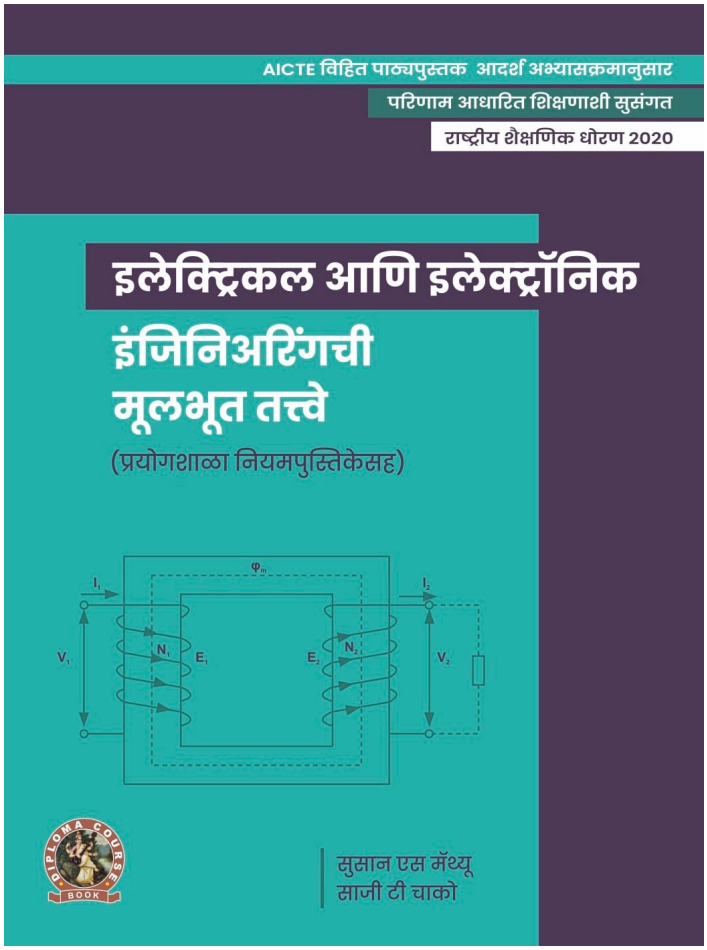

Fundamentals of Electrical and Electronics Engineering (with Lab Manual)

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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. 6. 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. 8. Solved and unsolved problems including numerical examples are solved with systematic steps.

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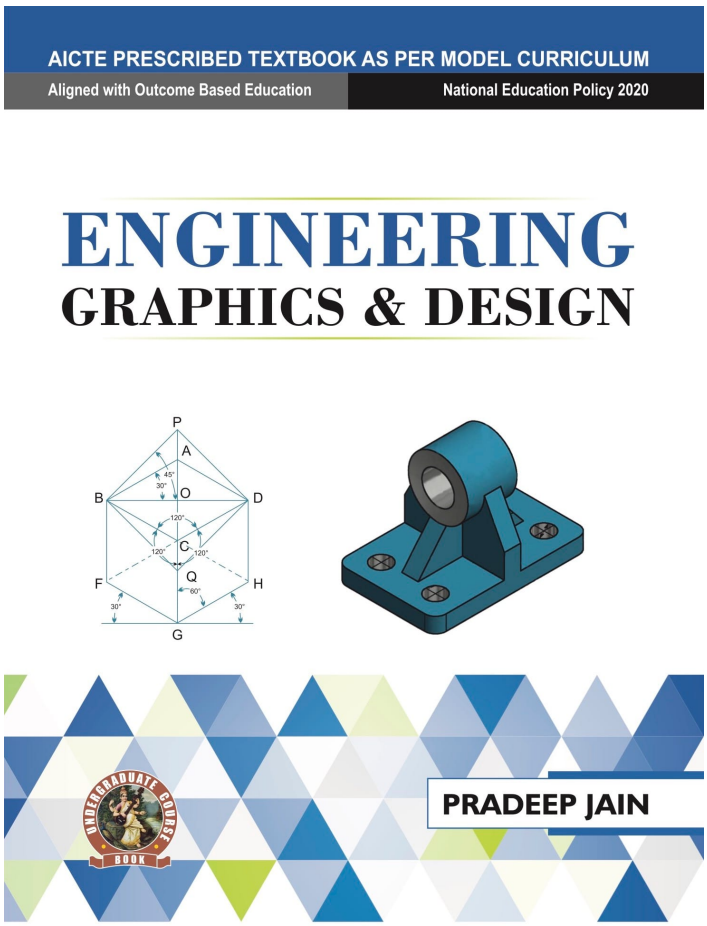

Engineering Graphics & Design

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Product Description

This textbook “Engineering Graphics and Design” is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples. Salient Features: 1. Introduction of Engineering Drawing. 2. Orthographic Projection. 3. Projection of Solids. 4. Section of Solids and Development of Surfaces. 5. Isometric Projection. 6. Overview of Computer Graphics. 7. CAD Drawing. 8. Solid Modelling. 9. Team Design Project.

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Author

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.

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