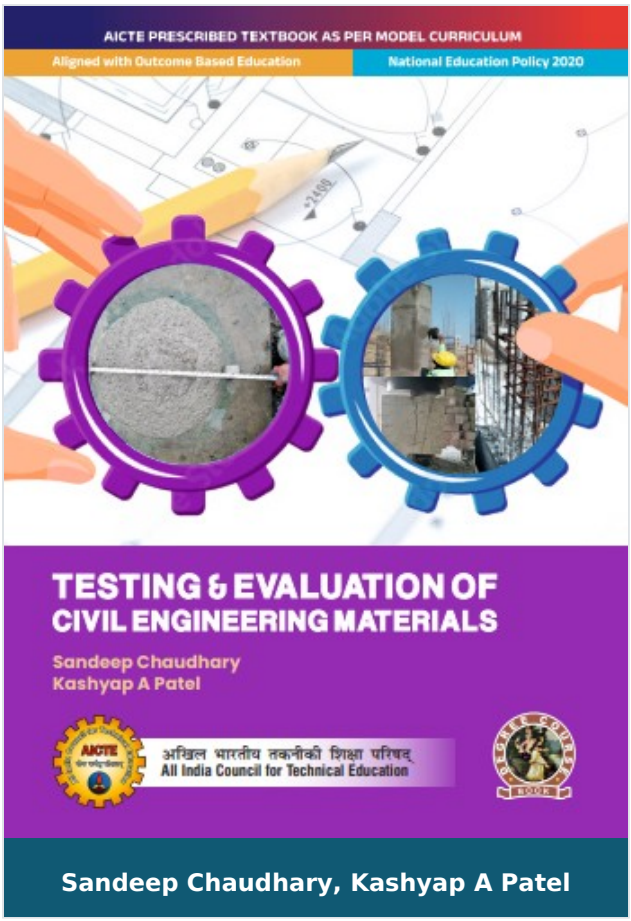


Testing & Evaluation of Civil Engineering Materials

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Product Description

Testing & Evaluation of Civil Engineering Materials

This book contains an introduction to civil engineering materials and an advanced discussion on their testing and evaluation procedure for fourth semester students of undergraduate degree course. Main purpose of the book is to help the students identify suitable civil engineering materials as per their needs, through a systematic testing and evaluation procedure. The book is designed as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020.

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
- 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.

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

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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.

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- Free Hand Sketches of Engineering Elements
- Computer Aided Drafting Interface
- Computer Aided Drafting

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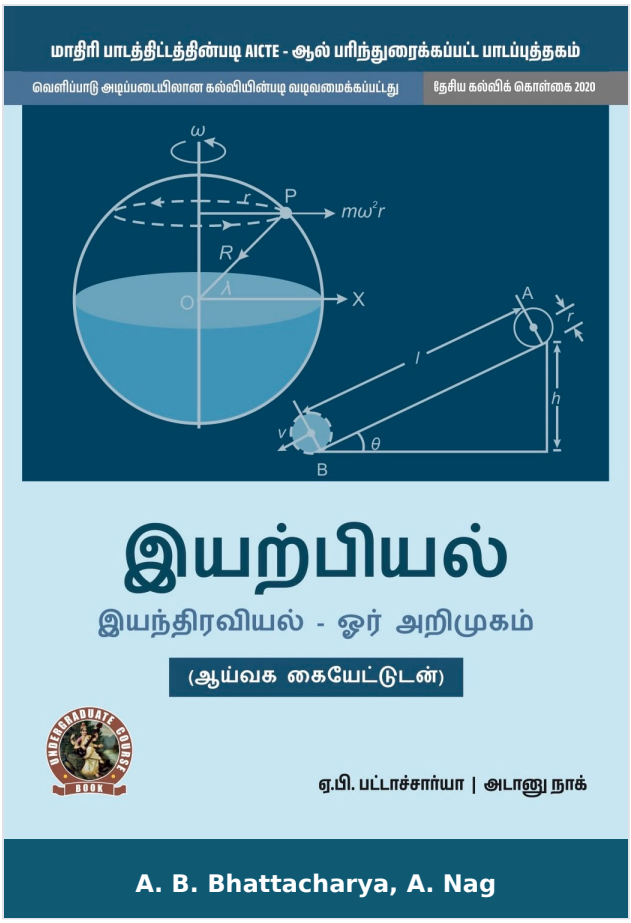
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Physics (Introduction to Mechanics) (with Lab Manual)

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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:

€ €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 heading "Know more" for clarifying some basic information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.

€ €5. 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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- References for Further learning
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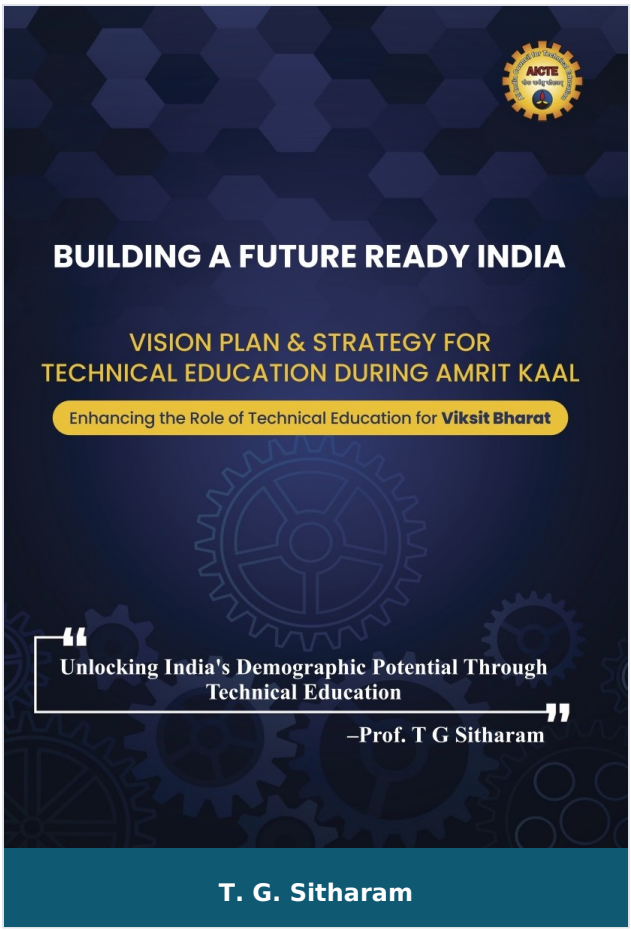
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Building a Future Ready India

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Product Description

In the rapidly evolving landscape of technical education, the year 2047 stands as a pivotal juncture for India. Th is book delves into the transformational journey of technical education over the past few decades, offer insights on vision, plan and strategy for technical education in India, harness the potential of technical education in nation building and foresight into the innovations, challenges, and possibilities that have defined this dynamic era. The significance of technical education has soared to unprecedented heights in the last few years. India envisions a holistic Technical Education System that produces globally competitive skilled technical professionals. With the rise of artificial intelligence, quantum computing and sustainable engineering solutions, a paradigm shift is necessary to impart skill based knowledge and prepare future generations. This book is an attempt to understand the key elements of Technical Education which includes ‘Quality Education, Leveraging Technology, Integration of Skill in Curriculum, Promotion of R&D, Innovation in Pedagogy, Industry- Academia Collaboration etc. Drawing upon the collective wisdom of visionaries, educators, and pioneers in the field, this book endeavors to illuminate the transformative forces shaping technical education. It seeks to inspire educators, students, policymakers, and innovators alike to envision and concreate a future where learning is agile, inclusive, and empowers individuals to thrive in an ever-evolving world.

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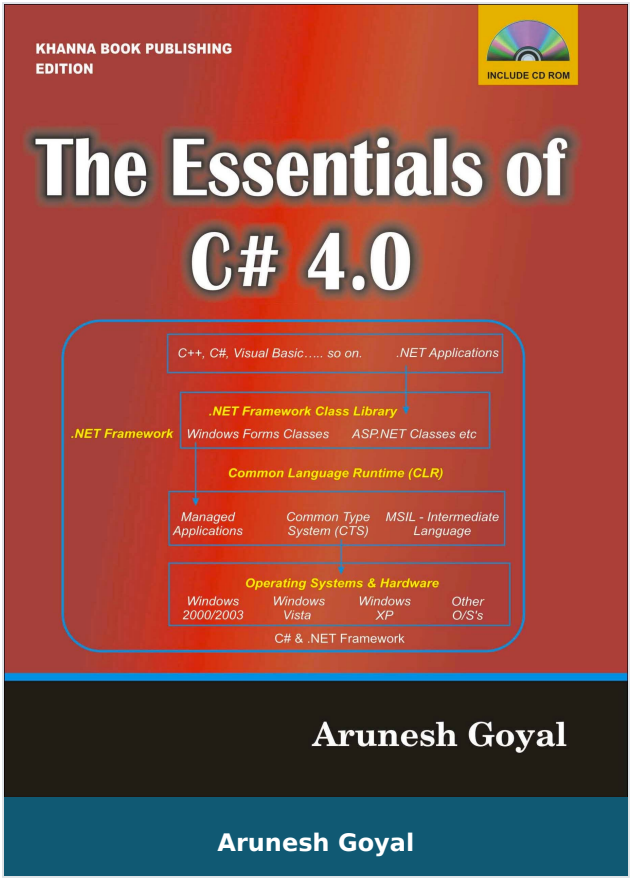
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elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

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The Essentials of C# 4.0

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Product Description

There are 10 case students in all pertaining to wide ranging topics. These will help you to see the practical side of applying C# in the real world and understand the theoretical subject matter of the text much better. Besides, there are more than 100 solved examples to help you out. The appendix carries a set of 35 typical problems which you will do will to your hand at in your one interest besides taking up the practical sessions affixed at the end of each chapter, In all these amount to 150 practical problems and exercises. we are confident that if you can solve all these problems on your one, you will be on your way to mastering C#. The glossary and the index section are for your ready reference. The glossary, in particular, has been designed so that you are able to understand much of the computer jargon associated with C# and the .NET environment in a big way.

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- Exception Handling
- I/O Strings and Formatting
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Author

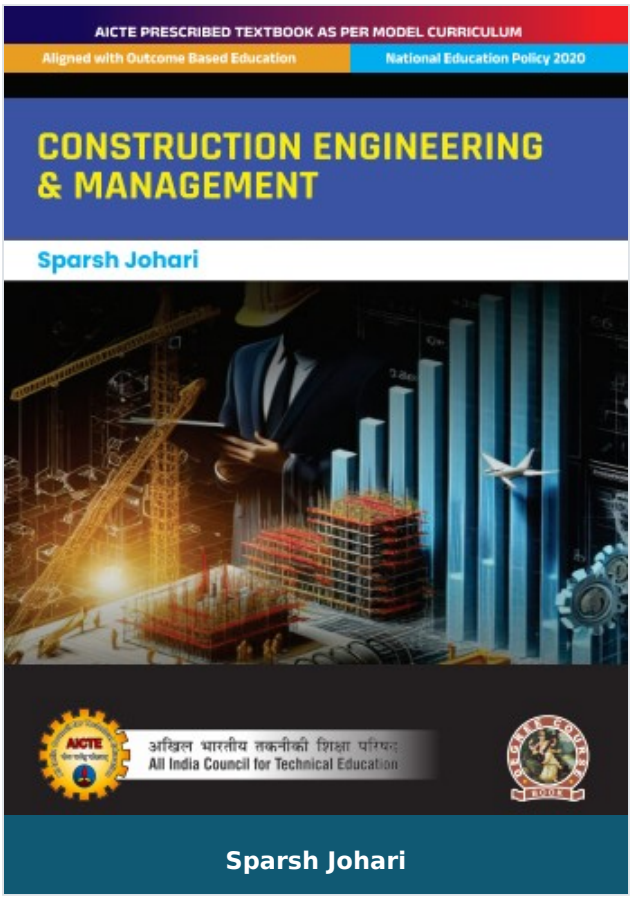
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Arunesh Goyal is a topper from University of Delhi {B.Sc. (H) Mathematics: Kirorimal College. North Campus}. He has been personally awarded by Mr. Amitabh Bachchan. He is also a First Division MCA degree holder from the same university. Besides, he has worked as Computer Analyst/Consultant at St. Stephen's Hospital, Delhi for more than 10 years. This underlines his extensive programming and systems development experience. Besides, he has worked on two projects related to intelligent databases with Comtech International Ltd., Noida. and the Times of India, New Delhi, respectively.

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Construction Engineering & Management

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Product Description

Construction Engineering & Management

“Construction Engineering & Management” is a field that encompasses the planning, design, construction, and management of infrastructure projects. This book typically covers various topics relevant to the construction work. It includes introduction to construction materials, methods, and techniques commonly used on construction sites. In addition, concepts such as scheduling, cost estimation, resource allocation, risk management, safe working environment, and quality control are also included.

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.
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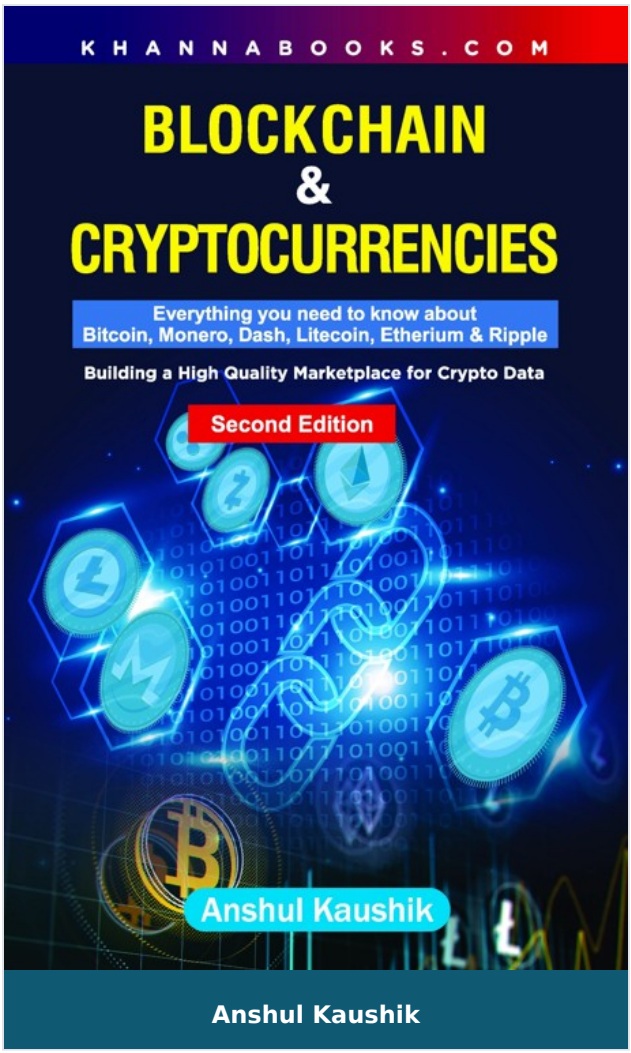
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Anshul Kaushik

Block Chain & Crypto Currencies

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Product Description

This book is the author's attempt to peep into the world of Block Chain & Crypto Currencies without getting into complex algorithms and mathematics. Both the technical and the transactional aspects are explained with help of simple metaphors for all classes of readers. For curious readers who frequently encounter "Bit Coin", "Block Chain" & Crypto Currencies" in their daily lives without a clue, this book can be considered as an authentic introductory text. Prospective investors can find this book useful in making decisions for choosing a suitable currency for investments. Readers who have already invested will find enough literature to understand the technical and functional aspects of resources for its readers to explore. This text also introduce readers with other popular crypto currencies Monero, DASH, Lite Coin, Etherium & Ripple.

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- APPENDIX-IV: Glossary

Author

Anshul Kaushik

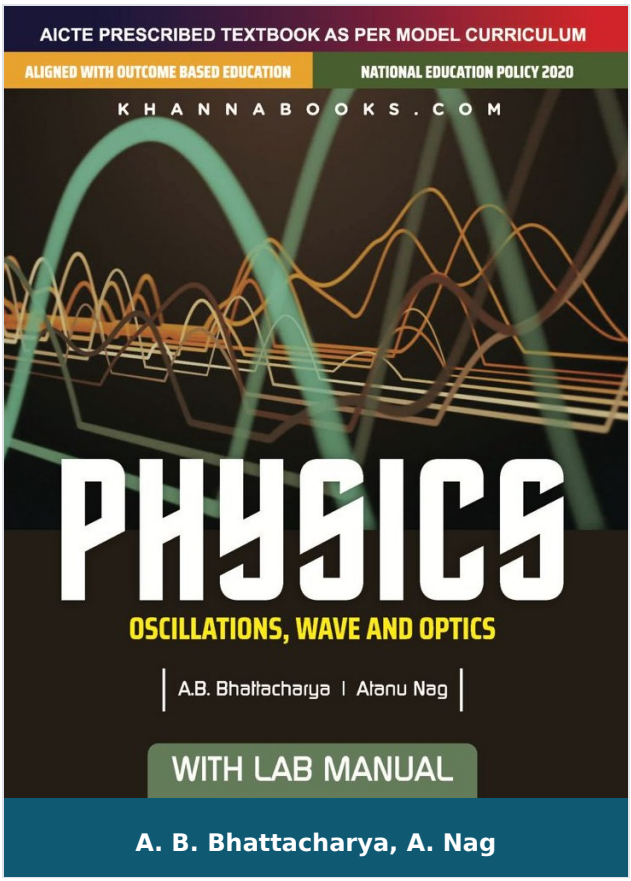
Anshul Kaushik is a computer science graduate and holds MCSE, CCNA, AIX and CEH certifications. He has acquired strong knowlwdge in Network Security, Windows and UNIX Platforms. His topics of interest include penetration testing, includent reports, security profile generation, counter attacks technology and got honored with "Original Mind Award 2002" by minister of information technology for excellence in science and technology. He was also awarded by intel in the Talent Discovery and magazines is his hoppy. He is currently working in IT department of Honda Siel Cars, India as a security specialist and

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Physics (Oscillations, Waves and Optics) With Lab Manual

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Product Description

For the implementation of an outcome based education the first requirement is to develop an outcome based curriculum and incorporate an outcome based assessment in the education system. By going through outcome based assessments evaluators will be able to evaluate whether the students have achieved the outlined standard, specific and measurable outcomes. With the proper incorporation of outcome based education there will be a definite commitment to achieve a minimum standard for all learners without giving up at any level. At the end of the Programme running with the aid of outcome based education, a student will be able to arrive at the following outcomes

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- Units 4: Wave Optics
- Lasers
- Table of Physical Constants
- Appendices
- Annexures
- Reference for Future learning
- CO and PO Attainments Table
- Index

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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

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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.

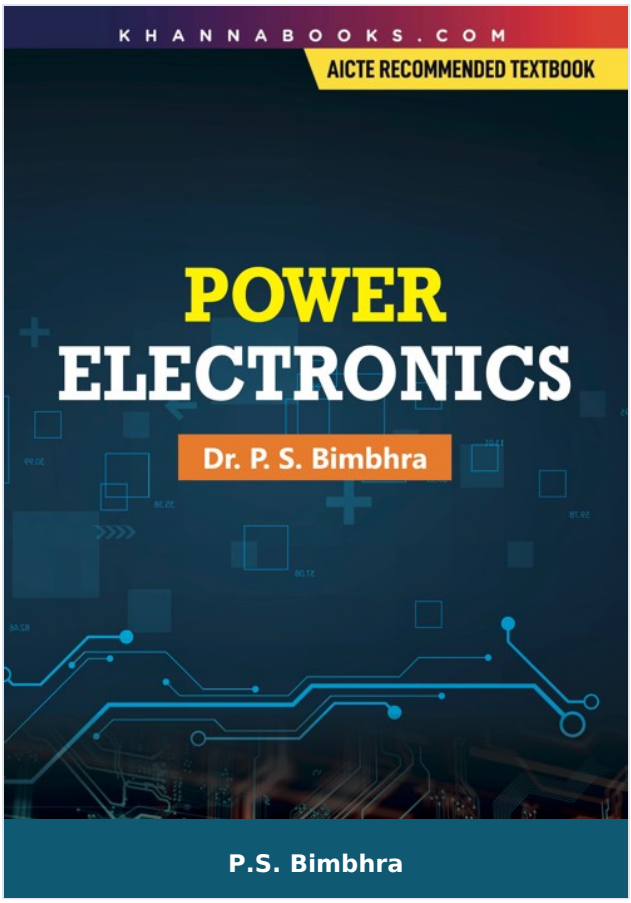
A. Nag

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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Product Description

This book is designed to sever a textbook for the students of engineering studying a course on power Electronics. It provides a lucid and comprehensive treatment of the topics covered in the book.

A large number of illustrative figures and a wide variety of worked examples add to the clarity of subject mater. This book would be found suitable as a textbook for the students pursuing courses in the areas of the Electrical, Electronics, Instrumentation, Telecommunications and Mechatronics.

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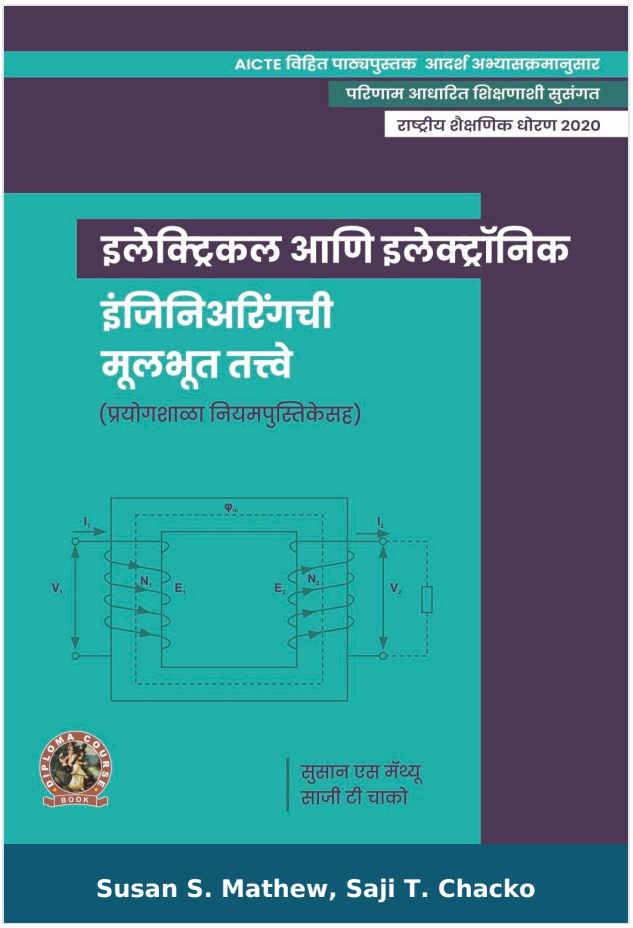
P.S. Bimbhra

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.

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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.

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

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- Transformer and Machines.
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Author

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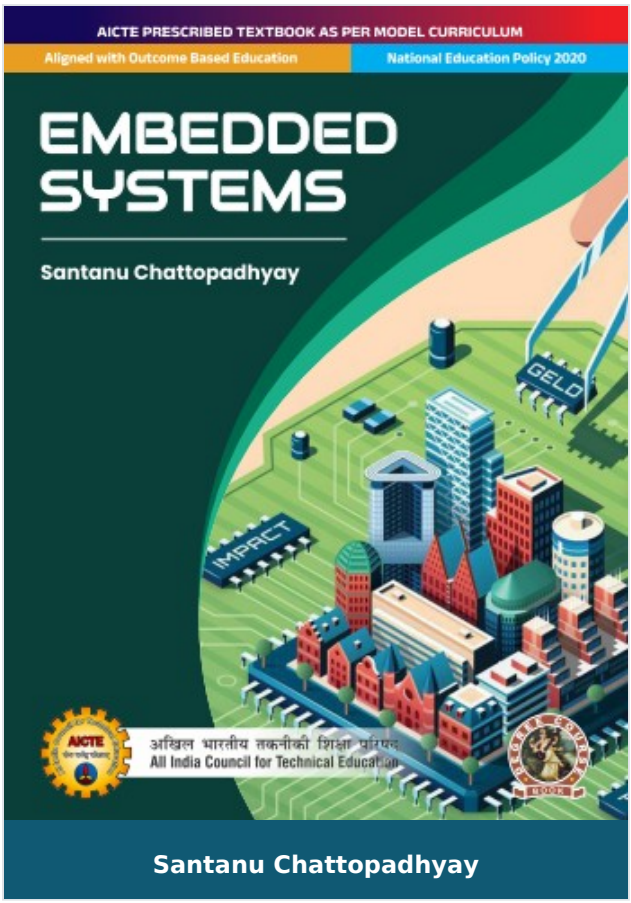
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Embedded Systems

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Product Description

Embedded Systems

This book is designed for the course on Embedded Systems. It begins with the discussion on basics of embedded system and its features. The host processors, generally used in an embedded system design have been enumerated. In the process, the ARM processor, Digital Signal Processor, FPGA and ASIC have been introduced. Special types of interfacing standards are employed to connect devices to the processor. Non-conventional interfacing standards used in embedded systems like SPI, I2C, RS-232, USB, IrDA, CAN and Bluetooth have been discussed. ADCs and DACs are used for interacting with the analog world. Buses like PCIe and AMBA are employed for developing a complete system. For larger embedded applications, Real-Time Operating Systems (RTOS) are used to realize and schedule the processes, along with their resource requirements. The language Embedded C has become the de facto standard for realizing embedded system programs. The language has been introduced with a large number of example programs. In order to keep the cost of an embedded system less while satisfying the area, performance and power constraints, it becomes necessary to partition an embedded application into set of modules which are realized either in software or in hardware. Hardware-software co-design and co-simulation techniques are employed to achieve the same. The book gives the readers a good understanding of all these topics. A good number of examples, exercises and references act as the starting point to the domain of Embedded Systems.

Salient features:

- Covers embedded processors – ARM, DSP, FPGA, ASIC.
- Discusses special interfacing standards for embedded systems – SPI, I2C, CAN, USB, Bluetooth.

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- Enumerates the essentials of RTOS and embedded programming.
- Presents hardware-software cosimulation and codesign techniques.

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- Real-time system design
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Author

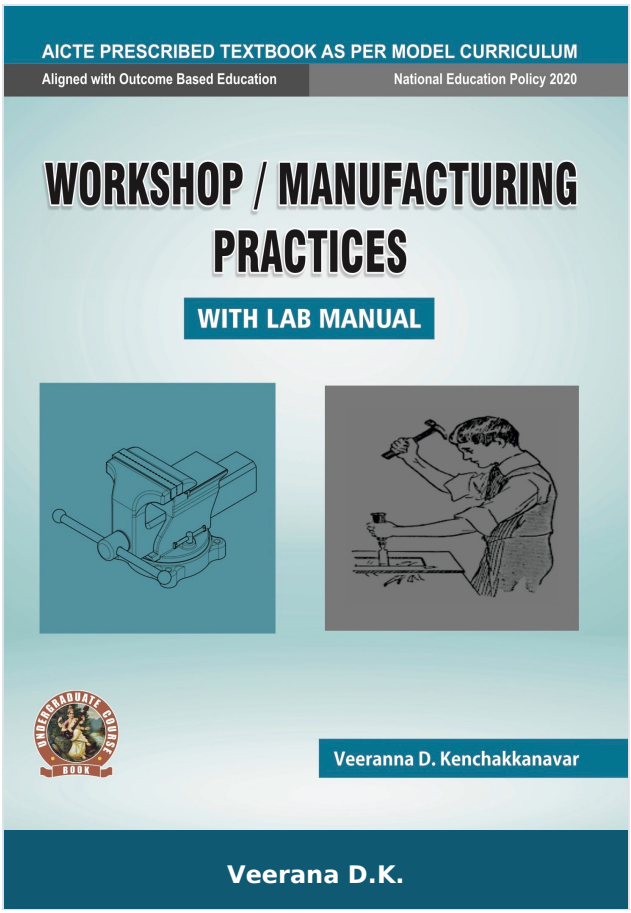
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Workshop / Manufacturing Practices (with Lab Manual)

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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

10. Appendices

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- CNC Machining, Additive manufacturing, Fitting
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- Electrical & Electronic
- Carpentry, Plastic moulding, glass cutting
- Metal casting, welding (arc welding & gas
- welding), brazing
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Author

Veerana D.K.

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