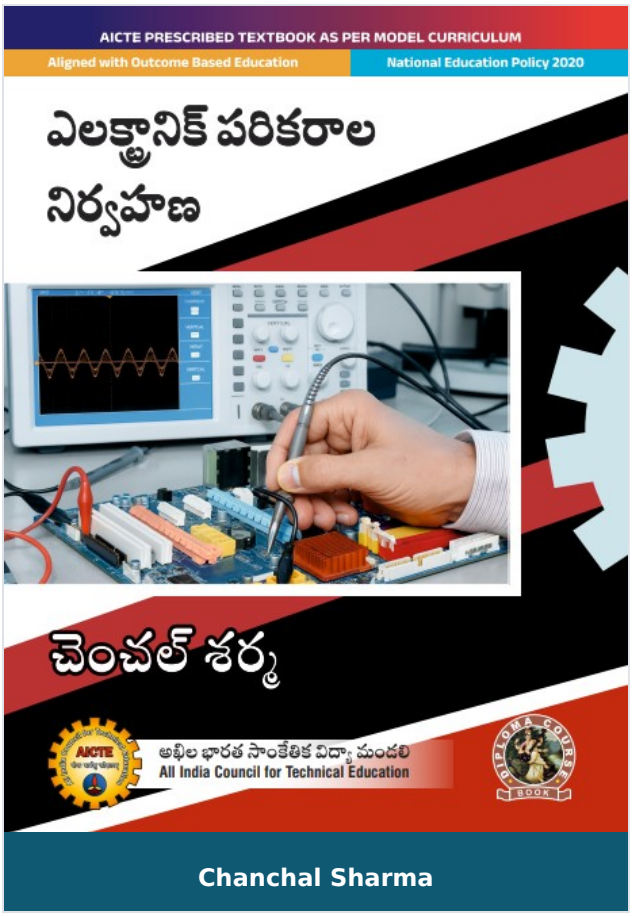

Electronic Equipment Maintenance

Author :	Chanchal Sharma
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E-ISBN 13 :	978-93-55386-60-1
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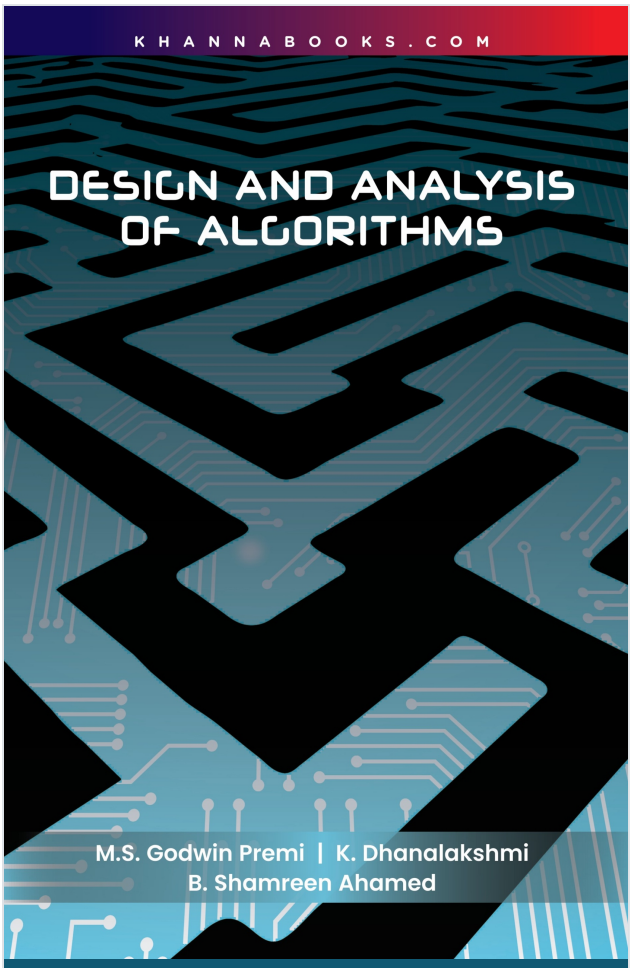

B. Shamreen Ahamed, M. S. Godwin Premi, K. Dhanalakshmi

Design and Analysis of Algorithms

Author :	B. Shamreen Ahamed, M. S. Godwin Premi, K. Dhanalakshmi
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E-ISBN 13 :	978-93-55382-63-4
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Product Description

This comprehensive textbook, Design and Analysis of Algorithms, is meticulously structured to provide Computer Science Engineering students with an in-depth and systematic understanding of foundational algorithmic principles. The core theme of the book revolves around the effective approach to computational problem-solving, emphasizing the art of designing efficient algorithms and rigorously analyzing their performance.

The book's purpose is to bridge the gap between theoretical knowledge and practical implementation, ensuring that learners can not only grasp complex concepts but also apply them to real-world computational challenges. It systematically covers essential methodologies across five comprehensive units. Starting with the fundamentals of algorithmic problem-solving, it delves into the critical concepts of Time and Space Complexity, Growth of Functions, and Asymptotic Notations (Big-O, Omega, and Theta).

It moves through major design paradigms, including Brute Force, Divide-and-Conquer, Greedy Approach, Dynamic Programming, and Backtracking and Branch and Bound. Detailed discussions on classic problems—like the Travelling Salesman, Knapsack, Huffman Coding, and Optimal Binary Search Trees—demonstrate the strengths and weaknesses of each approach. Written in a clear, simple, and student-friendly manner while maintaining academic rigor, this book is an indispensable resource. It serves as a comprehensive guide for students, educators, and researchers seeking to build a strong analytical mindset and a deep appreciation for the art and science of algorithm design.

Salient Features:

• Fundamental Analysis: Offers a detailed introduction to Time and Space Complexity, Growth Functions, and Asymptotic Notations (Big-O, Omega, Theta), enabling mastery over performance estimation and efficiency.

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• Recurrence Relation Mastery: Dedicated coverage on solving recurrence equations using methods like Substitution, Recursion Tree, and the Master Method for precise algorithm time analysis.

• Five Major Techniques: Systematically explores all major algorithm design techniques, including Divide-and-Conquer, Greedy Approach, Dynamic Programming, Backtracking, and Branch and Bound.

• Linear Time Sorting: Features in-depth explanations of advanced sorting algorithms that achieve linear time complexity, such as Counting Sort, Radix Sort, and Bucket Sort.

• Practical Applications: Discusses classic problems like Travelling Salesman, Knapsack, Huffman Coding, and the 8-Queens Problem, illustrating the real-world application of theoretical concepts.

• Efficiency Benchmarking: Provides both Theoretical and Empirical Analysis methods for complexity, with program examples to ensure a clear understanding of practical performance measurement.

• Combinatorial Optimization: Focuses on advanced techniques like Backtracking and Branch and Bound, demonstrating their effective use in solving complex combinatorial optimization and NP-Complete problems.

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- Introduction to Analysis of Algorithms
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- Brute Force and Divide-and Conquer
- Greedy Approach and Dynamic Programming
- Backtracking and Branche and Bound

Author

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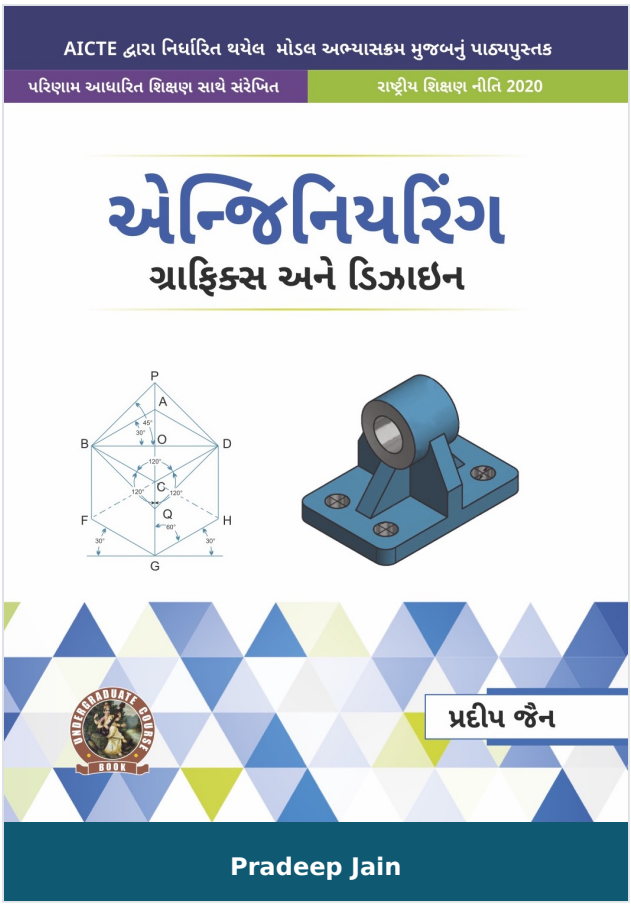

Engineering Graphics & amp; Design

Author :	Pradeep Jain
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Condition Type :	New
Country Origin :	India

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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- Overview of Computer Graphics
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- Annotation Layers and 3D Modelling
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Author

Pradeep Jain

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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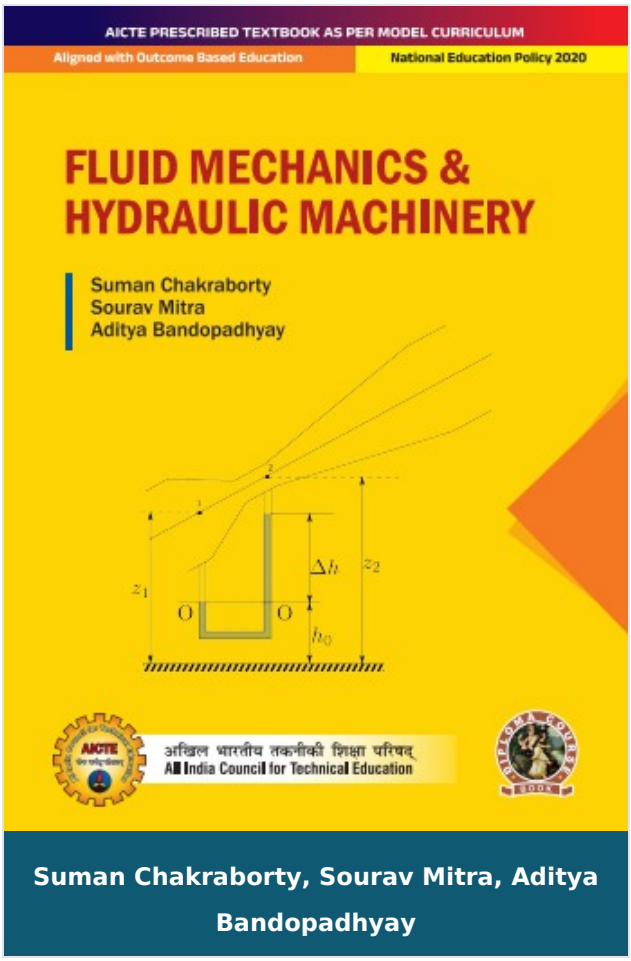

Fluid Mechanics & Hydraulic Machinery

Author :	Suman Chakraborty, Sourav Mitra, Aditya Bandopadhyay
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ISBN 10 :	9355389515
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Condition Type :	New
Country Origin :	India

Product Description

Fluid Mechanics & Hydraulic Machinery

Fluid mechanics & hydraulic machinery is a fundamental course of mechanical and civil engineering. The course introduces the students with the basic principle and governing equation of the fluid mechanics. The primary objective of this book is to ensure that the students develop strong conceptual basic of the fundamental principles of fluid mechanics and hydraulic machinery and cultivate the ability to apply the concepts to solve complex fluid flow problems.

Salient features:

- Well-designed content material of the book aligning with the mapping of course outcomes, programs Outcomes and unit outcomes.
- Is 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, historical facts and QR code for E-resources to know more about various fluid mechanics concepts.
- Some practical problems are given at the end of the units for students to learn by implementing the fundamental concepts of fluid mechanics.
- Student and teacher centric subject materials have been included in book with balanced content and in chronological manner.
- Numerous solved examples, laying down the mathematical approach towards solving a fluid mechanics or hydraulics machinery problem have book provided have been provided in every unit for the help of the students.
- Multiple choice questions (MCQs) and unsolved numerical problems with varying levels of difficulty have been included at the end of each unit.

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- Fluids Under Motion 1: Conservation Laws
- Engineering Applications 1: Flow Through Pipes
- Engineering Application 2: Open Channel Flows
- Fluid Machinery: Turbines
- Fluid Machinery: Pumps
- CO and PO Attainments table
- Index

Author

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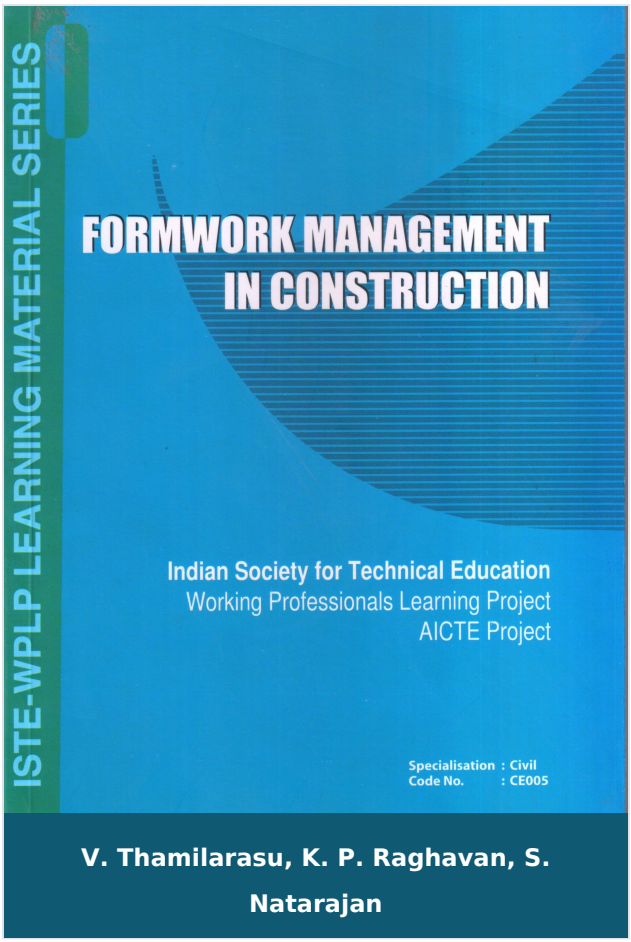

Formwork management in Construction

Author :	V. Thamilarasu, K. P. Raghavan, S. Natarajan
ISBN 13 :	978-93-55389-30-5
ISBN 10 :	9355389302
E-ISBN 13 :	978-93-55389-30-5
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Language :	English
Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

This book on "Formwork Management in Construction" has been written keeping in mind the importance of Formwork and its Applications for the Construction Industry. A good understanding of effective and safe use of formwork & scaffolding for various applications is essential for students of Civil Engineering, Site Engineers, Site Supervisors and Builders.

Formwork is one of the most neglected subject in any civil construction as it is only a part of enabling work. Strict norms on safety and proper design of formwork is generally not addressed properly in case of normal construction. The construction happening in the rural areas and in some part of urban areas are (mostly residential constructions) carried out using conventional material available in the market (Timber, casuarina poles).

The requirement for good Formwork is realized after the introduction of Ready Mixed Concrete (RMC) in the market, in which the formwork should be adequately designed to take care of the concrete pressure.

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- Labour Material Productivity
- Formwork Management
- Training of Workmen
- Slip Forming
- Formwork for Special Application, Aluminium Formwork and Precast Moulds
- Safety in Formwork
- References

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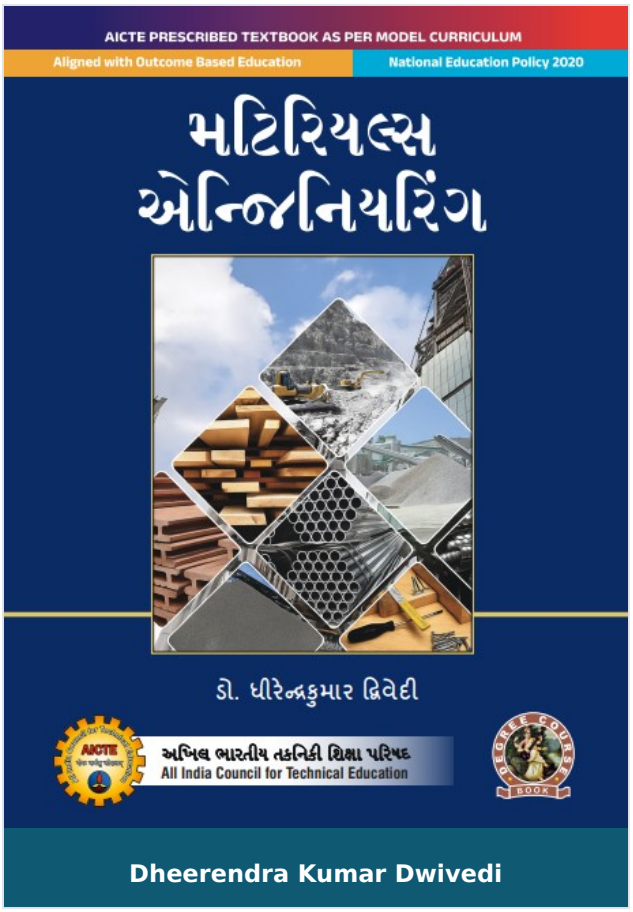

Materials Engineering

Author :	Dheerendra Kumar Dwivedi
ISBN 13 :	978-93-55384-33-1
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E-ISBN 13 :	978-93-55384-33-1
Edition :	First
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Product Description

Materials Engineering

Materials play very important in development of efficient and reliable products, and systems leading to the improved life of society. Material affects the design and manufacturing of products and systems significantly. Therefore, it is extremely important for mechanical, production, manufacturing and material engineers to have a systematic understanding on fundamental of material science affecting microstructure and mechanical properties coupled techniques and approaches available to modify and improve properties as per need of application. The book entitled “Materials Engineering” developed as per model curriculum of AICTE for 4th semester student of subject Materials Engineering

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In start of eads unit leaming 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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- Unit Summary
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- Know More
- References and Suggested Readings

Author

Dheerendra Kumar Dwivedi

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Dr. Dheerendra Kumar Dwivedi Professor, Department of Mechanical and Industrial Engineering Indian Institute of Technology Roorkee

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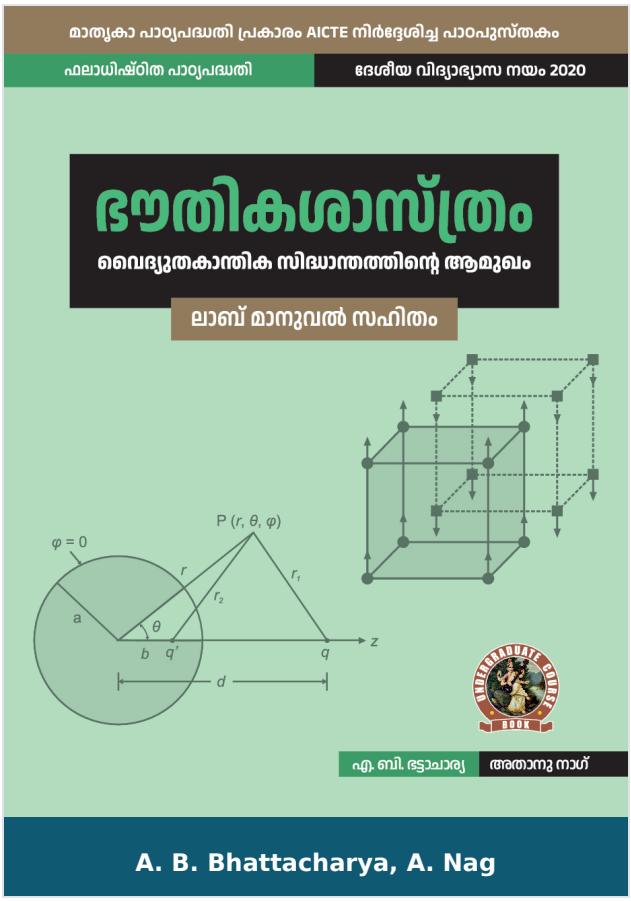

Physics - Introduction to Electromagnetic Theory (with Lab Manual)

Author :	A. B. Bhattacharya, A. Nag
ISBN 13 :	978-93-55381-55-2
ISBN 10 :	9355381557
E-ISBN 13 :	978-93-55381-55-2
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Product Description

Engineering Physics: Introduction to Electromagnetic Theory 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 Electromagnetic Theory to tackle 21st 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 types of medium and advanced level problems in a very logical and systematic manner.

· Some essential information for the users under 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 sector or in national laboratories at the very forefront of technology.

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Author

A. B. Bhattacharya

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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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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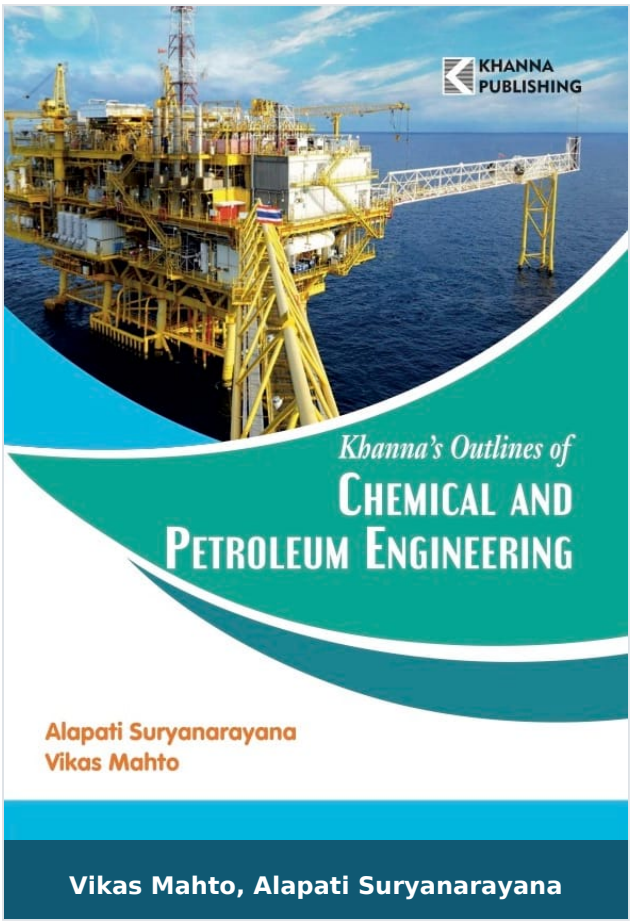

Khanna's Outlines of CHEMICAL & PETROLEUM ENGINEERING

Author :	Vikas Mahto, Alapati Suryanarayana
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Product Description

This book of chemical & Petroleum Engineering Contains of Various Topics. It covers different type of question with their Answers and Fill in the Blanks. Required data and equations are given for day to day calculations of Chemical Engineering topics. This book is necessary tool or an instrument for Chemical & Petroleum Engineers.

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Dr.Vikas Mahto is an Associate Professor in the petroleum Engineering Department of Indian School Of Mines Dhanbad, India. He has received his Ph.D. degree in petroleum Engineering from Indian School of Mines Dhanbad in 2004. He is having more than 12 years of teaching experience in the field of Chemical Engineering and Petroleum Engineering. He is the author of more than 100 technical papers in different national/International journals 7 conferences of repute. He has completed three research projects sponsored by UGC-ISM, UGC New Delhi and CSIR New Delhi and currently working on collaborative project with Oil India India Ltd, Duliajan, Assam. He has field two Indian Patents. He is the reviewer and member of editorial boards of many national and international journals.

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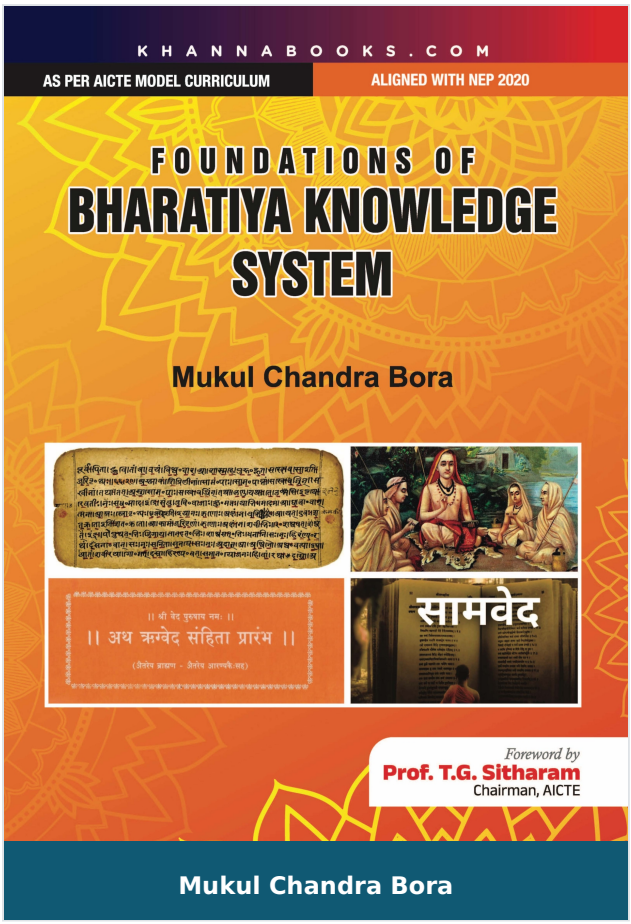

Foundations of Bharatiya Knowledge System

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Product Description

In recent times, there has been a growing discussion about the Bharatiya Knowledge System. However, many of us lack a deep understanding of its foundations, which is akin to achieving sustainability without acknowledging the importance of mother nature and the Earth. After Conduction three Years of research in this field, the author discovered that although people often mention the Bharatiya Knowledge System, most of us are not well- versed in the fundamental Knowledge and interpretation of the Sanskrit Literature of Ancient India. Therefore, it is crucial to first delve in to the foundations of the Bharatiya Knowledge System and subsequently explore its relevance in the modern scientific world. Just as a building or structure cannot be constructed without a solid foundation, acquiring a comprehensive understanding of the Bharatiya Knowledge System necessitates studying the Vedic Texts and Literature. Consequently, the author has divided this book into two volumes as Volume I: Foundations of Bharatiya Knowledge System which simply covers the foundations of the Bharatiya Knowledge System in a simple and easy-understandable language; Volume II: Bharatiya Knowledge System and Modern World which examines the scientific and modern theories found in the ancient texts.

Salient Features of this book Include an Exploration of the:

1. Vedic Period of Bharat.

2. The History of Sanskrit Literature.

3. An Introduction to Rigveda, Yajurveda, Atharvaveda, Samaveda, Brahmanas, and Upanishads.

4. Although there is an extensive treasure trove of Sanskrit Literature.

5. This Book Focuses solely on the original Vedas, Brahmanas and Upanishads.

6. Ancient Bharat’s Seat of Learning.

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7. How the Western People got our Ancient Rishi’s Wisdom and converted it to materialistic use.

8. Why do we have to know our heritage which was neglected for many thousands of years by our own people?

In the final chapters, there sections are dedicated to provide glimpses of our ancient education and its application in the modern world. These chapters are intended to stimulate readers’ minds and help them recognize the relevance of the Bharatiya Knowledge System in their own academic lives. Fostering a sense of pride in the Vast practical knowledge of ancient India. This book is entirely devoted to establishing the foundations of the Bharatiya Knowledge System, Supplemented by a few examples of its application in today’s world.

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Author

Mukul Chandra Bora

Dr. Mukul Chandra Bora has an extensive academic background in civil engineering, reflecting his commitment to scholarly excellence. He earned a Ph.D. in Civil Engineering from the Indian Institute of Technology (TIT) Guwahati in 2011, following an M. Tech in Geotechnical Engineering from IIT Kharagpur in 2000. His journey in the field began with aB.E.in Civil Engineering from Dibrugarh University in 1988. With decades of professional experience, Dr. Bora has held key academic and administrative roles. Since August 2012, he has been the Director of the Institute of Engineering & Technology, Dibrugarh

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University. Previously, he served as State Project Administrator for the Northeast State Project Implementation Unit (2017-2021) of TEQIP - III project of Ministry of Education, Government of India. His teaching career includes a tenure at Technical Education Department of Government of Assam together with professional experience as a Quantity Surveyor at PBS Limited, Guwahati (199l-1995) and a Site Engineer at M.L. Dalmiya & Co. Ltd., Kolkata (l989-1991). Dr. Bora's research and consultancy work focus on ground improvement techniques, geosynthetics, rainfall impact on groundwater, non-biodegradable waste in construction, and slope stabilization. He has contributed significantly to materials characterization and geotechnical investigations for major infrastructure projects, including power plants and industrial facilities. He is at fellow of the Institution of Engineers (India), a Senior Member of the Asia Pacific Chemical, Biological and Environmental Engineering Society (Hong Kong), and a Member of the International Association for Life Cycle Civil Engineering (Italy). Additionally, he serves as a reviewer for reputed journals, including Springer's Journal of the Institution of Engineers (India), Series A. Beyond civil engineering, Dr. Bora has made remarkable contributions to the Bhartiya Knowledge System (BKS), which encompasses philosophy, science, mathematics, astronomy, Ayurveda, linguistics, and traditional Indian technologies. Rooted in ancient texts like the Vedas and Upanishads, BKS has profoundly influenced Indian civilization. Dr. Bora is dedicated to reviving and integrating traditional Indian knowledge with modern research and education, bridging the gap between ancient wisdom and contemporary advancements. His book, ''Foundations of Bhartiya Knowledge System" (2023), published by Khanna Publishing House, delves into the fundamental principles of India's knowledge systems, promoting their relevance in the modem era. Through his work, Dr. Bora continues to advance both civil engineering and India's intellectual heritage, fostering a deeper appreciation of Bhartiya wisdom among scholars and students.

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