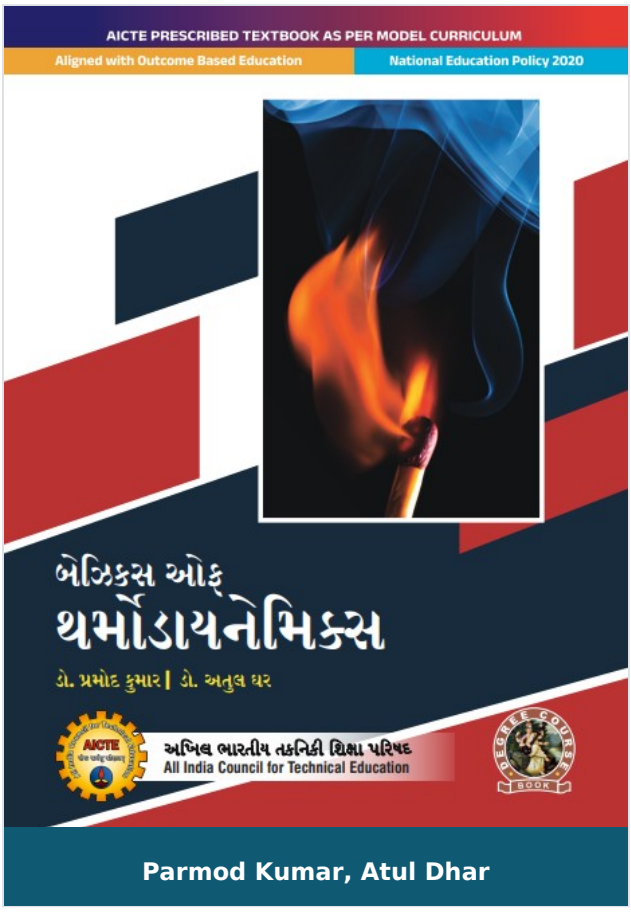

Basics of Thermodynamics

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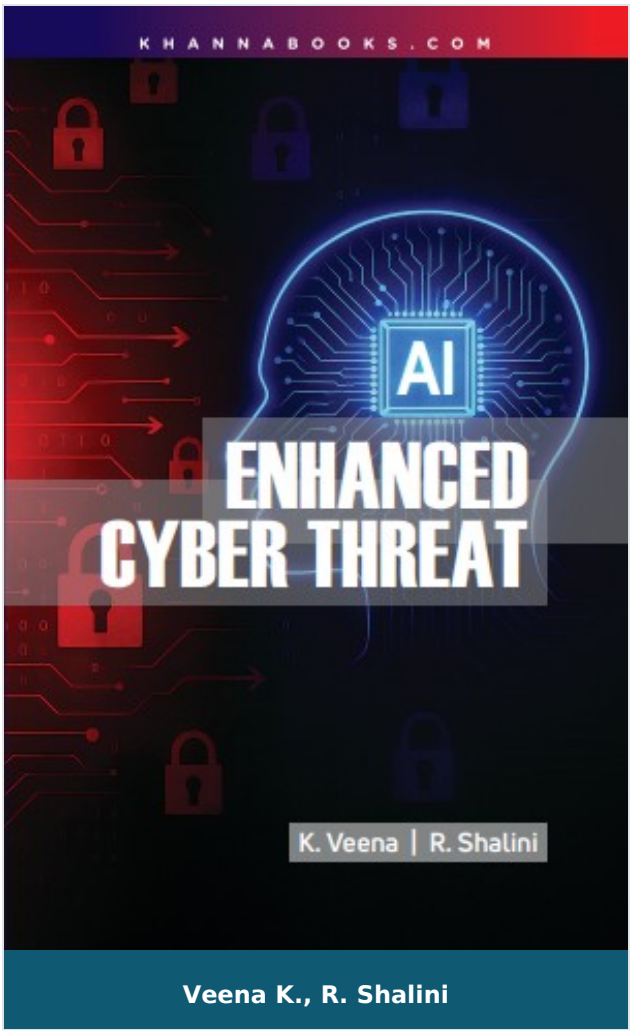

Veena K., R. Shalini

AI Enhanced Cyber Threat

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Publisher :	Khanna Publishing House
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Product Description

AI Enhanced Cyber Threat

In the rapidly evolving digital landscape. Artificial intelligence (AI) presents a double – edged sword. While it serves as the foundation for next-generation defense systems. It is simultaneously being weaponized by adversaries to create sophisticated, adaptive, and highly evasive cyber threats.

AI Enhanced cyber threats offers a vital, comprehensive analysis of this critical intersection. This book meticulously explores the emerging methodologies where Ai and Machine Learning are used to launch automated spear-phishing campaigns, craft polymorphic malware, and bypass conventional security measures. Crucially, it provides IT professionals, security analysis, and researchers with actionable, cutting-edge strategies to counter these advanced threats.

From implementing adversarial training to fortify defense models to establishing secure deployment practices in complex IoT and cloud environments, this text is the definitive guide to building an intelligent, resilient, and adaptive cybersecurity posture in the AI age.

Salient Features:

- **Comprehensive threat analysis:** In-depth exploration of how adversaries utilize AI to automate attacks, enhance phishing efficacy, and deploy adaptive malware.
- **Advanced Mitigation Strategies:** Detailed coverage of AI-powered defense mechanisms, including Adversarial training to improve model resilience against attacks.
- **Real-time security implementation:** Focus on deploying AI-powered anomaly detection systems for continuous, real-time monitoring ongoing compliance in modern infrastructure.

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- **Secure IoT and cloud deployment:** best practices for secure configuration of cloud services, network segmentation, and ensuring ongoing compliance in modern infrastructure.
- **Data security fundamentals:** Insights on establishing effective patch management processes and conduction regular security audits and risk assessments.
- I**deal for:** undergraduate and postgraduate students, researchers, cybersecurity professionals, and network administrators seeking to master the principles of AI-driven security.

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- Impact of AI on cybersecurity
- Secure web and application security
- Cyber threats

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Dr. R. Shalini Associate Professor, Dept of CSE, Sathyabama Institute Of Science and technology Dr. K. Veena Associate professor, Dept of CSE, Sathyabama Institute Of science and technology

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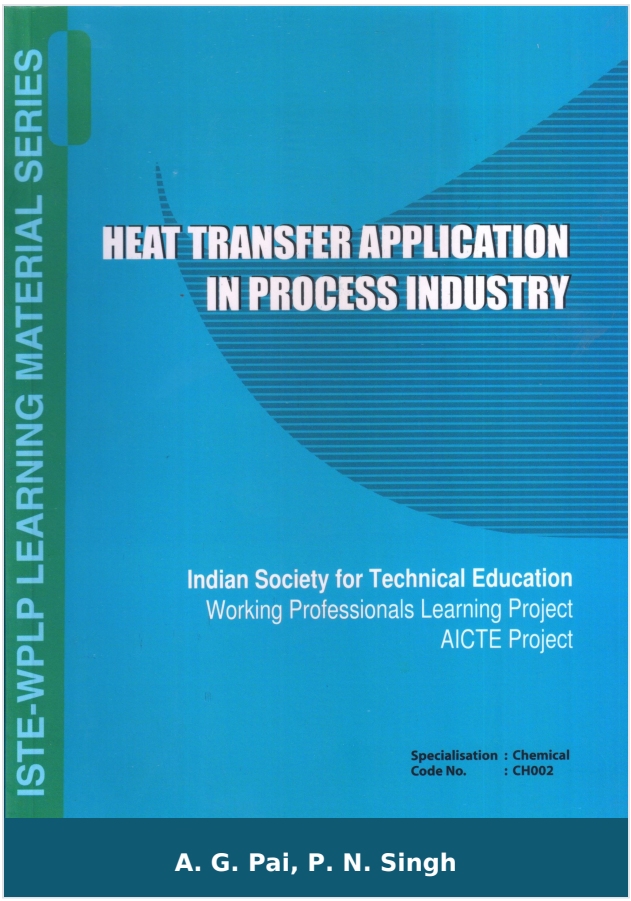

Heat Transfer Application in Process Industry

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Product Description

Heat transmission is very common and familiarly occurs in our daily life, so much that we tend to accept the process for granted and only think of its glaring manifestations and effects. We use our physical intuition to interpret thermal phenomena, and our reactions to hot and cod substances or the environment becomes voluntary. However, when heat transmission is considered from a quantitative point of view, it becomes quite clear that mechanism of heat transfer and their operations in a given system are not so trivial. Though there is evidence of use of fire by cave men about half a million years ago, yet only in relatively recent times the people have understood that heat is a form of energy in transit and that temperature is a measure of that energy present in a body. The importance of intelligent and judicious use of heat energy has been understood only recently when people have realized that source of heat energy such as coal, gas, and oil are not sufficient to sustain the economic development of the modern society.

Energy saved is energy generated. Process industries being leading consumers of heat energy, it is imperative on the part of the Managers of Process industries, to take all possible steps to minimize the wasteful use of this scarce resource. The text is intended to provide a good understanding of the basic concepts of heat transfer and enhance the skills of the operators and engineers running not only process industries using heat transfer equipment. It is targeted towards the working professionals who area diploma holders in engineering and graduates in science/engineering manning process industries. Emphasizing focuses upon, the ability to run heat transfer equipments efficiently, by bringing heat loss to unavoidable level.

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- P. N. Singh
- P. N. Singh

Author

A. G. Pai

Mr. A. G. Pai, is presently the General Manager (Projects) at Mangalore Refinery and Petrochemicals Ltd. Mangalore. He received his B. E. in Chemical Engineering from National Institute of Technology Karnataka (formerly known as K. R. E. C.), Surathkal and P. G. Diploma in Business Management. He has overs 25 years of industrial experience in running mega industrial trainings in various countries like USA, Germany, France, UK, and Malasytsia. The author is deeply indebted to his mother and all his teachers who have been the source of inspiration in his life. Dr.

P. N. Singh

Dr. P. N. Singh is the Director (Retired), National Institute of Technology Karnataka, Surathkal. He is basically a Chemical Engineer and has over decades of experience in teaching and research related to processes industries. The coauthor, Mr. S. R. Bhat, is presently working as Group General Manager (Instrumentation) at Mangalore Refinery and Petrochemicals Limited, Mangalore. He graduate in Chemical Engineering from Indian Institute of Technology, Chennai. Atomic Research centre, for seven years. Later he worked for Humphreys and Glasgow Consultants, for three years. He ha also worked for Uhde India Limited, for seven years. For the last sixteen years, he has been working for Mangalore Refinery and Petrochemicals in various capacities. He has introduced many

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innovative ideas in running the process plants, particularly in the areas of instrumentation and control.

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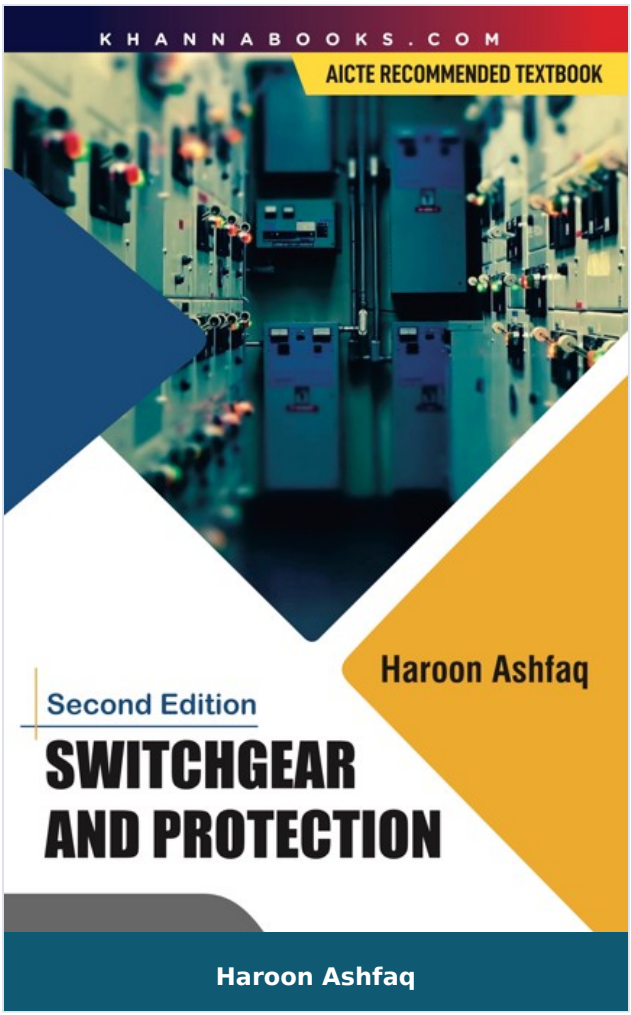

Switchgear and Protection

Author :	Haroon Ashfaq
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Product Description

This book is intended to serve as a textbook for course 'switchgear and protection' for B. Tech/B.E. Degree students of Electrical Engineering. It will also serve as a text reference for the students of diploma in electrical engineering. The common topics included in the syllabi of almost all engineering institutions in India are covered in this book.

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- Static Relays
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- Distance Protection
- Transformer Protection
- Generator and Motor Protection
- Transmission Line and Busbar Protection
- System Neutral Grounding
- Over voltage Protection
- Circuit Breaking
- Circuit Breakers

Author

Haroon Ashfaq

Haroon Ashfaq is Assistant Professor, Department of Electrical Engineering, Jamia Millia Islamia, New Delhi. He is did his B.Tech in Electrical Engineering, M.Tech in Power Systems & Drives and has a doctorate in Electric Drives from Aligarh Muslim University, Aligarh. He has co-authored successful books which includes Network Analysis & Synthesis. He also has several international and national research publications to his credit.

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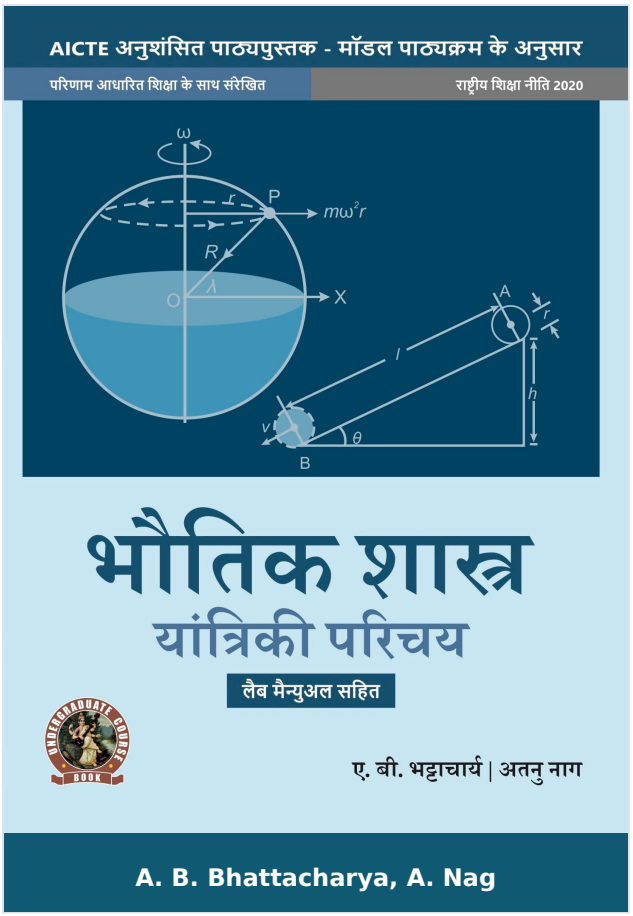

Physics (Introduction to Mechanics) (with Lab Manual)

Author :	A. B. Bhattacharya, A. Nag
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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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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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Applied Physics-II (with Lab Manual)

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Product Description

“Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE).

Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning.

Some salient features of the book:

1. Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes.

2. Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit.

3. Content presented in book in chronological way.

4. Figures, tables and equations are given to improve clarity of the topics.

5. Solved examples are given with systematic steps.

6. MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

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- Wave Motion and its applications
- Optics
- Electrostatics
- Current Electricity
- Electromagnetism
- Semiconductor physics
- Modern physics
- Index

Author

Hussain Jeevakhan

Hussain Jeevakhan-789391505578(DIP126EN) “Applied Physics-ll” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE). Book covers seven topics- Wave

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motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning. Some salient features of the book: l Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. l Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. l Content presented in book in chronological way. l Figures, tables and equations are given to improve clarity of the topics. l Solved examples are given with systematic steps. l MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

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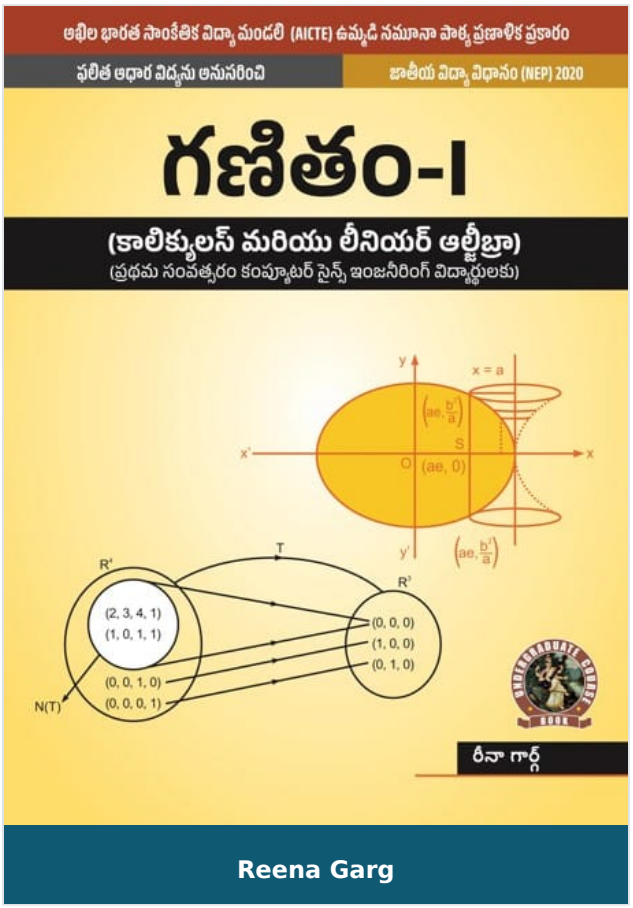

Mathematics-I (Calculus and Linear Algebra) for Computer Science Engineering Branches

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Product Description

Calculus and linear algebra covers all the modules prescribed by AICTE model curriculum to all the 1st year CSE students studying in engineering institutions universities of the country. It serves as both text book and /or useful reference work. It contains 5 units which include calculus, algebra and vector spaces along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that helps in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE, this book is in student friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of questions in this book have been designed to access the reader's understanding of the subject. Professional of those who are preparing of competitive examinations will also find this book very useful. This book give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book:

1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.

2. Emphasis on the applications of concepts and theorems.

3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.

4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student’s practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the student’s capability, to increase the feeling of team work

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5. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible.

6. Some standard problems with sufficient hints have been included in each exercise to gauge the student’s visual understanding and for grasp the theory.

7. Video links, interesting facts, uses of ICT also included after each topic in every unit for easy understanding of the readers. Also included the pictorial representations of many topics for fast and permanent grasping of the content.

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Author

Reena Garg

Dr. Reena Garg , M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this

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book more valuable for the knowledge seekers.She has published more than 10 research papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

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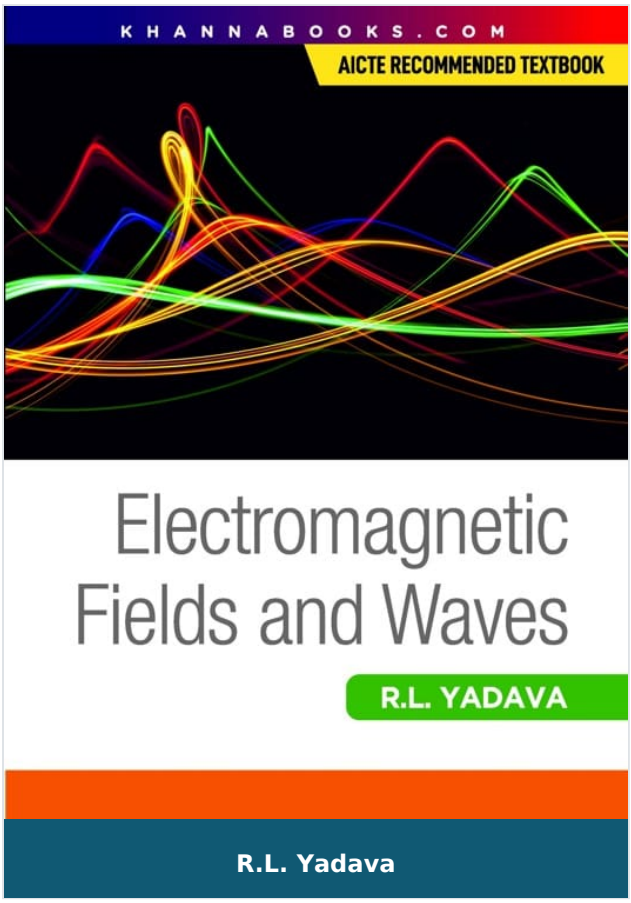

Electromagnetic Fields & Waves

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Product Description

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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- Solved Examples
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Author

R.L. Yadava

Dr. R.L. YADAVA, is Professor in the department of ECE, Galgotias College of Engg. and Technology, Gr. Noida, UP During his doctoral work he was associated with R&D project funded by DST, Govt. of India. After receiving Ph.D. degree, he joined VIT University, Vellore T.N, in 2001 and served as Head of Microwave Division, Coordinator R&D and

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Coordinator (UG) of Electrical Sciences. During his service at VIT, he was deputed as visiting faculty to KIGALI UNIVERSITY, KIGALI Center Africa. He has been coordinator of M.Tech programme of U.P. Technical University, 2007-08. He has organized several guest lectures, short-term training programmes, FDPs and conferences in the field of microwaves and Antennas. His research areas includes: Waveguides, Microwaves and Microstrip Antennas. He has guided several M.Tech dissertations and 05 Ph.Ds. He has 120 publication in International/ National Journals, Conferences and Symposiums. He is Member of ISTE, SEMCE (I) and IEEE.

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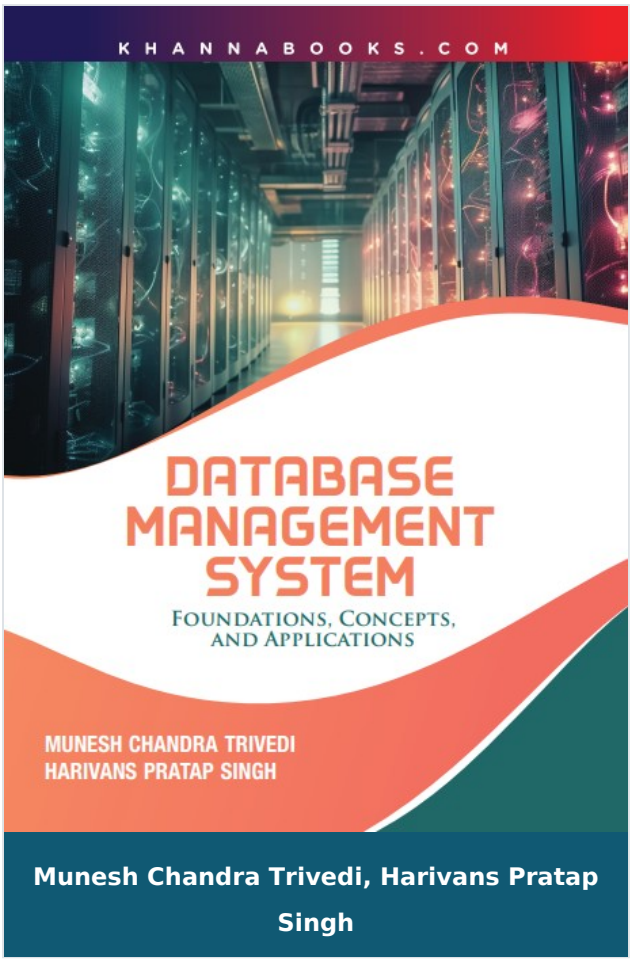

Munesh Chandra Trivedi, Harivans Pratap Singh

Database Management System(Foundations, Concepts, And Applications)

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My Book of Database Management System” is a complete and structured guide to the principles and applications of DBMS, designed for a wide audience—from undergraduate students to professionals preparing for GATE, IT MNC interviews, and real-world data system design.

This book provides a deep, yet accessible exploration of database theory, architectures, query languages, transaction management, and modern trends in distributed and NoSQL systems. Aligned with the syllabi of leading engineering colleges and global universities, it combines academic precision with industry-relevant insight, making it ideal for both learning and long-term reference.

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- ER MODEL
- INTRODUCTION TO RELATIONAL MODEL
- FUNCTIONAL DEPENDENCY
- NORMALIZATION

Author

Munesh Chandra Trivedi

Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32

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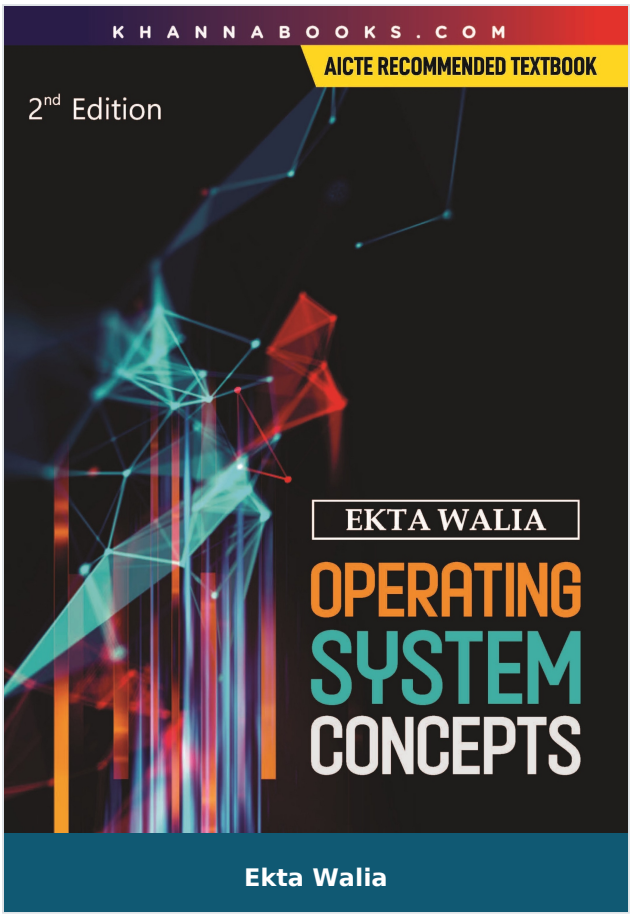

Operating System Concepts

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Product Description

This is a revised edition of the eight years old popular book on operating System Concepts. In Addition to its previous contents, the book details about operating system foe handheld devices like mobile platforms. It also explains about upcoming operating systems with have interface in various Indian language. In addition to solved exercises of individual chapters, the revised version also presents a question bank of most frequently asked questions and their solutions. Value addition has been done in almost all the 14 chapters of the book.

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