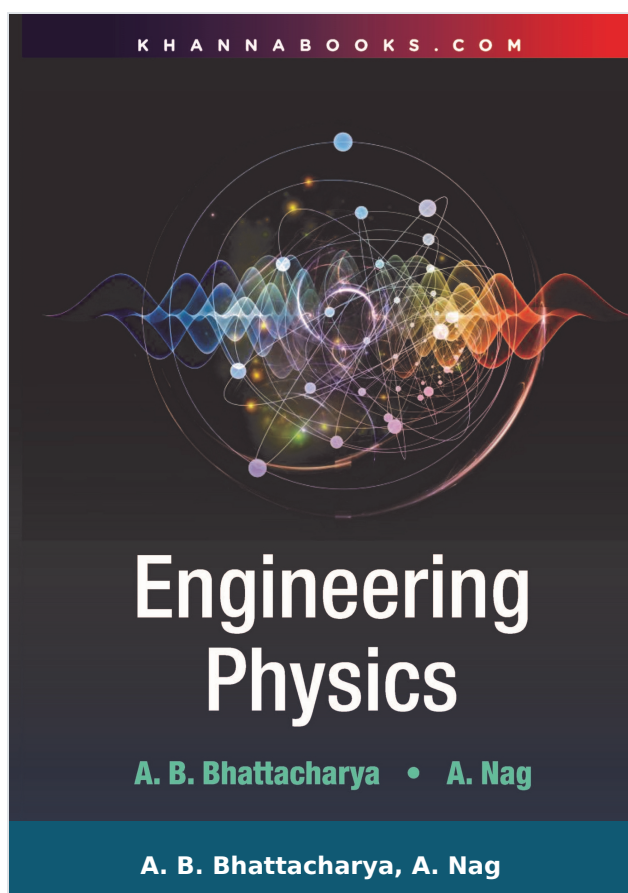




Engineering Physics

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Product Description

In this book titled 'Engineering Physics,' the authors have given sincere efforts to explain the concepts of Physics in a very judicial way for the Engineering students of different branches so that they can acquire a reasonably good knowledge on the subject without devoting much time. In order to implement it successfully, the authors have maintained the following two features throughout:

1. Learning objectives are outlined at the beginning of each chapter followed by their item-wise presentation lucidly for a better understanding of the readers.
2. Each chapter is enriched with solved numerical problems including exercises and supplementary problems for the routine practice helpful for the examinations.

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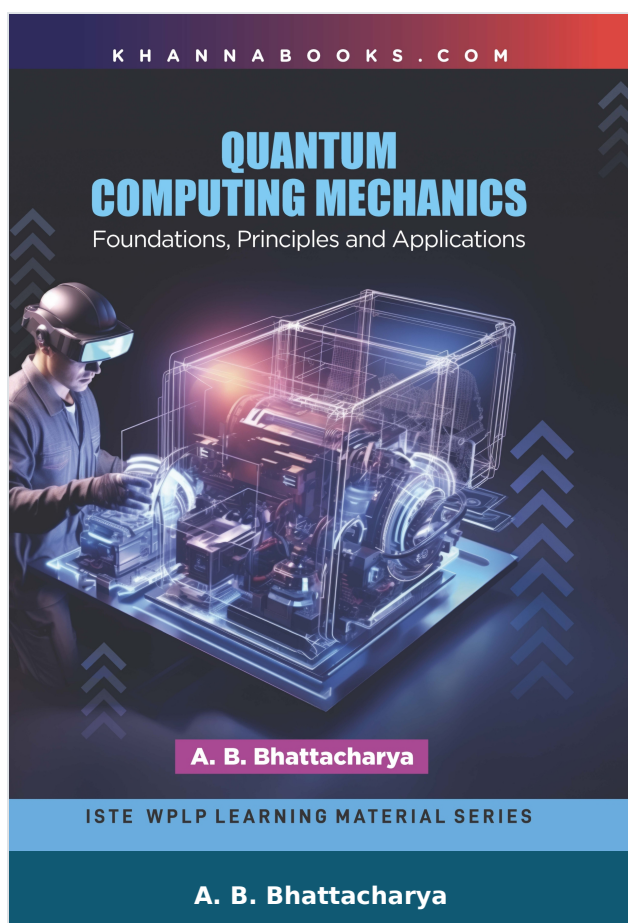
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Quantum Computing Mechanics(Foundations, Principles and Applications)

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Product Description

Quantum Computing Mechanics(Foundations, Principles and Applications) **Unlock the Quantum Frontier Quantum Computing Mechanics:** Foundations, Principles and Applications is a comprehensive journey into the heart of one of the 21st century's most transformative scientific revolutions. Bridging the disciplines of quantum mechanics and computational theory, this book presents a lucid and in-depth exploration of quantum computing—from its theoretical foundations to its real-world applications. **Whether you are a curious student, a passionate researcher, or an industry professional, this volume offers:**

- A rigorous yet accessible introduction to the principles of quantum mechanics and how they power next-generation computation.
- Core topics like qubits, quantum gates, superposition, entanglement, and interference, laid out clearly with diagrams, examples, and circuit design.
- Step-by-step walkthroughs of groundbreaking quantum algorithms including Grover's, Shor's, and the Quantum Fourier Transform.
- Essential coverage of error correction, fault tolerance, and the global push toward quantum supremacy.
- Extensive practice sections with short questions, multiple-choice quizzes, solved numerical problems, and innovative project ideas—making it ideal for self-study or academic use.

From the roots of classical logic to the surreal domain of entangled qubits, **Quantum Computing Mechanics** brings clarity to complexity. It does not merely teach you what quantum computing is—it shows you why it matters.

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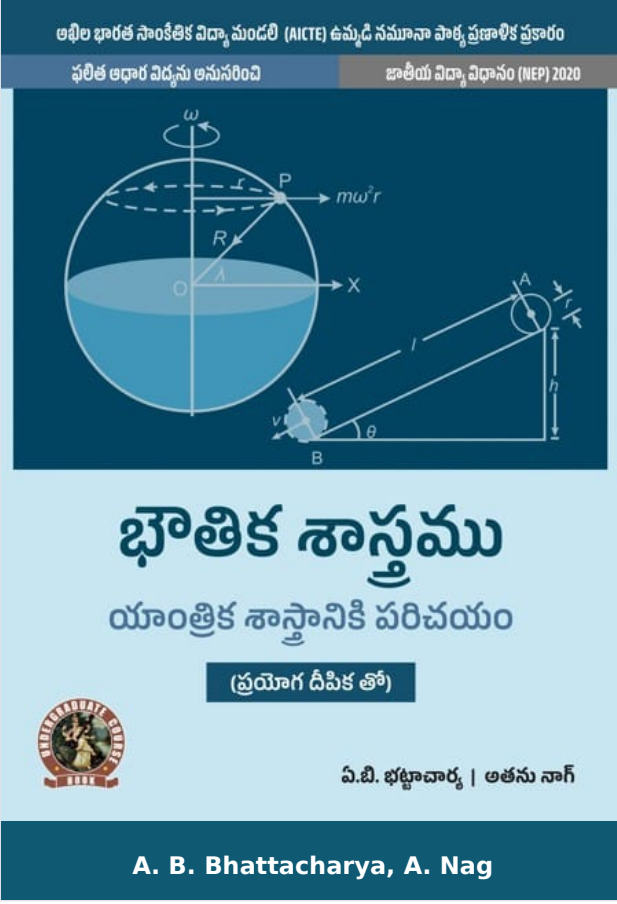
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- QUANTUM ERROR CORRECTION AND FAULT TOLERANCE
- APPENDICES

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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:

- Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.
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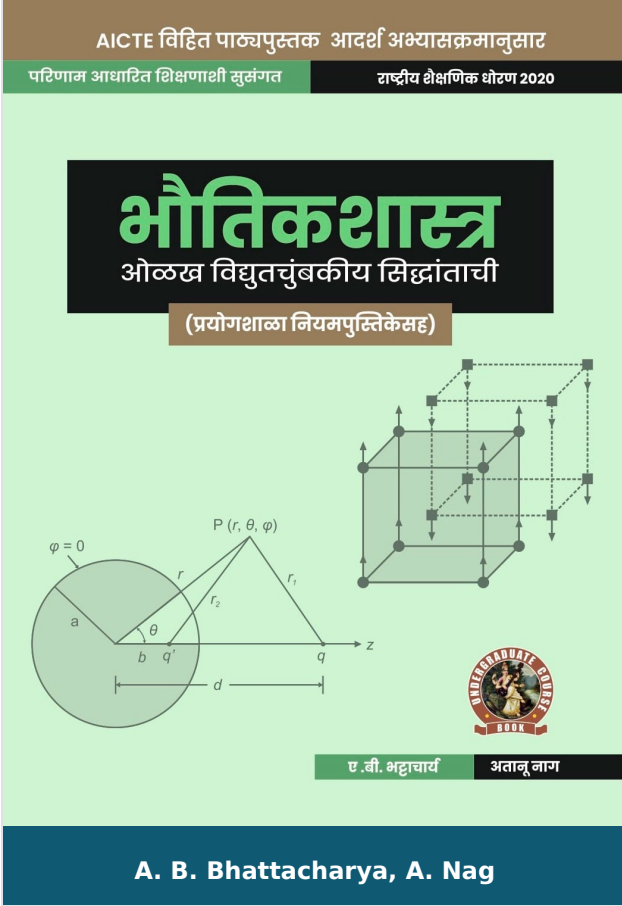
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Physics (Introduction to Electromagnetic Theory with Lab Manual)

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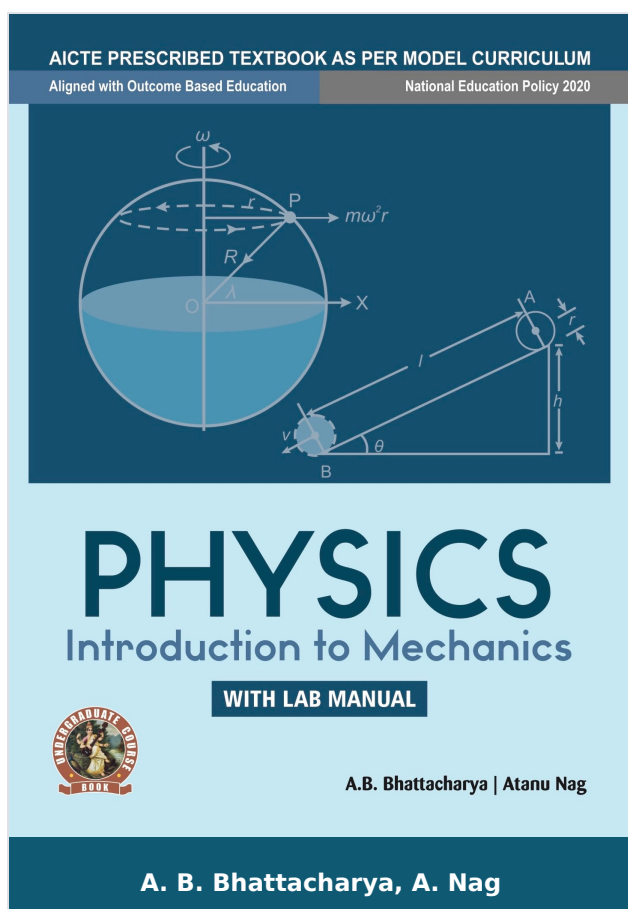
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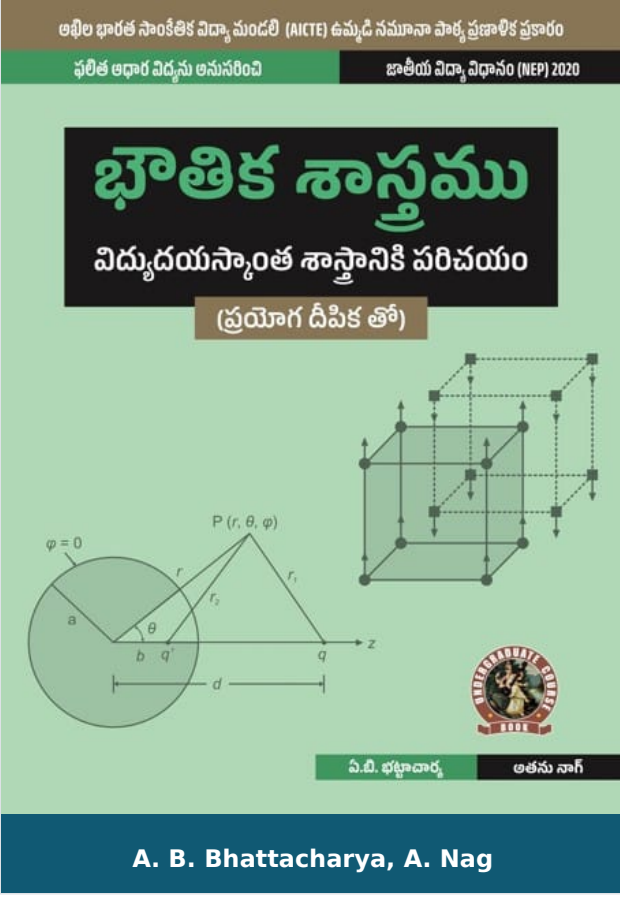
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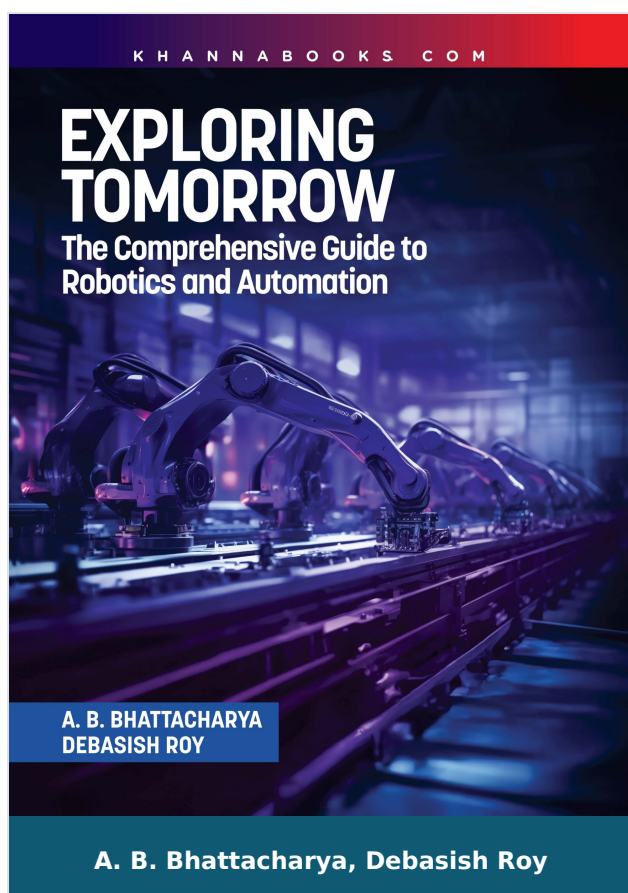
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Exploring Tomorrow (The Comprehensive Guide to Robotics and Automation)

Author : A. B. Bhattacharya, Debasish Roy

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1. Covers industrial, service, domestic, healthcare, education, entertainment robots, and autonomous vehicles.
2. Focuses on human-robot collaboration, ethical challenges, privacy, and job displacement issues.
3. Details the technologies behind self-driving cars and autonomous drones. Covering AI, sensor fusion, computer vision, and control systems.
4. Explores surgical robots, rehabilitation robotics, telemedicine, and their contributions to healthcare.
5. Discusses agricultural robots for tasks like planting, weeding, harvesting, and livestock management.
6. Examines educational robots like LEGO Mind storms, Ozobot, and Sphero, and their integration into curricula.
7. Highlights the role of robotics in space missions, including rovers, unmanned spacecraft, and teleportation.
8. Explores robots used in search and rescue, hazard environments, mapping, and medical assistance.
9. Discusses robots inspired by biological systems, focusing on design, locomotion, and sensory systems.
10. Looks at the use of robots in theme parks, robotic performers, customer service, and logistics.

11. Discusses trends in automation, collaborative robotics, and their impact on the workforce.
12. Focuses on automation in manufacturing, robotic arms, robots, and cyber security.
13. Addresses technical challenges, research efforts, and the future of robotics.
14. Envisions future developments like swarm robotics and human- like androids.
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- Robotics in Agriculture.
- Robots in Education.
- Robotics in Space Exploration.
- Role of Robotics in Disaster Response.
- Biologically-Inspired Robotics.
- Robotics in Entertainment and Service Industries.
- Autonomation and the Workforce: Emerging Trends.
- Interconnected Domains of Industrial Automation and Robotics.
- Robotics and Automation Technologies used in Modern Warfare.
- Challenges in Robotics and Automation.

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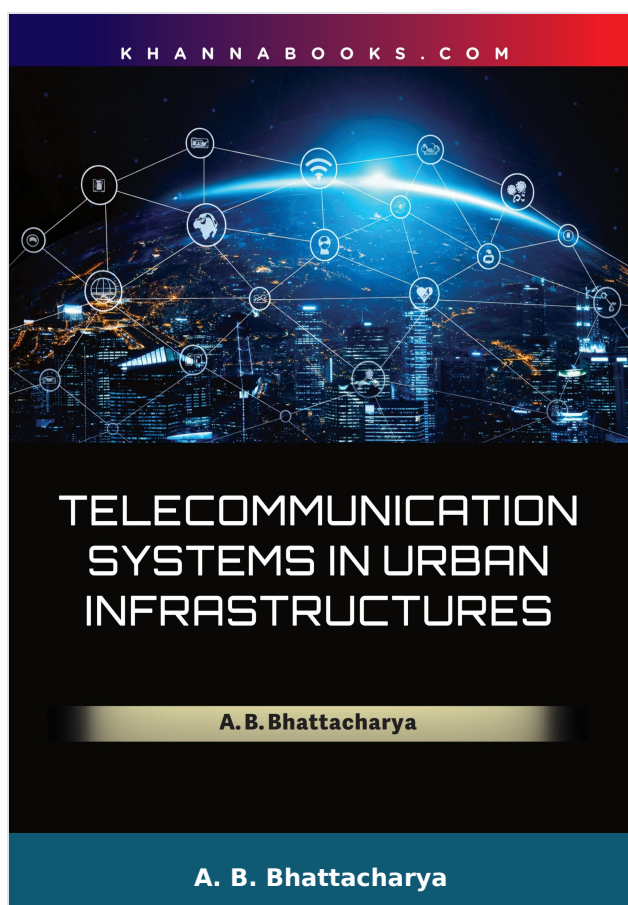
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Debasish Roy

Dr. Debasish Roy is a highly accomplished and motivated professional with a robust academic background in Information Technology, including an MCA, MBA M. Tech, and PhD. He was currently the Director General(Railways) at a top-level position in the Indian Police Service (IPS). He received the Indian Police Medal and President's Police Medal in 2000 and 2010. He is well known for pioneering contributions in land mobile radio systems. He is highly recognized for spearheading strategic planning and execution of security measures for the railways network, implementing innovative technologies to enhance railway security and counteract emerging day-to-day operations efficiently. He has provided expert guidance on implementing land mobile radio system for public safety agencies and conducted groundbreaking research in cryptanalysis, leading to

development of advanced techniques for enhancing cyber security. He successfully led a team in designing and implementing secure communication protocols for land mobile radio systems, ensuring robust and encrypted communication. He has published numerous research papers in reputed conferences. He mentored and guided students at the postgraduate and doctoral levels. He has a proven track record of effective leadership and team management, besides all his strategies planning and execution in high-stakes environments. He received many honors and awards for his outstanding contributions to the field and was recognized for exceptional leadership and innovation in technology-driven security initiatives. He completed an Executive Program in Quantum Computing and Machine Learning from IIT Delhi in 2023. He participated in the Workshop on Machine Learning for Cryptology (ML4Crypto 2023) at ISI, Kolkata from November 8-10, 2023, organized by SAG, DRDO. His recent paper on " Iterative Quantum Algorithm for Linear System Solving" has been accepted at the International Conference SAI, Computing, 2024 London, organized by Microsoft Corporation.



Telecommunication Systems In Urban Infrastructures

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Product Description

Telecommunication Systems In Urban Infrastructures

Modern cities run on connectivity. From smart transport and energy grids to IoT-enabled homes and resilient emergency networks, telecommunication on systems form invisible backbone of urban life. Telecommunication systems in Urban Infrastructure delivers a comprehensive, practical, and future-focused exploration of how communication technologies design, support, and transform smart cities.

This book bridges theory and real-world application, guiding students, engineers, planners, and policymakers through the full ecosystem of urban telecommunication – from foundational signal principles to emerging 6G, AI- driven networks, and cyber-resilient infrastructure.

Readers will explore:

- Core principles of wired and wireless telecommunication systems
- Smart city connectivity for transport, utilities, building, and public spaces
- IoT integration, cyber security, and urban data privacy
- Planning, deployment, and economic challenges in dense urban environments
- Cutting-edge technologies including AI optimization, edge/cloud computing, and quantum communication
- Global smart city case studies and future sustainability trends

Each chapter is carefully structured with:

- Concept explanations grounded in real urban scenarios
- Numerical problems and technical exercises
- Short questions and multiple-choice assessments
- Projects ideas with guided solution

- Practical insights into standards, regulations, and infrastructure planning

With coverage spanning telecom fundamentals, smart utilities, mobility systems, urban IoT, security frameworks, and next-generation networks, this book provides a complete roadmap for designing and managing connected cities. Whether you are preparing for academic study, professional deployment, or research in smart infrastructure, this text equips you with the technical depth, analytical tools, and systems perspective required building the cities of tomorrow.

Build smarter networks. Design resilient cities. Shape the connected future.

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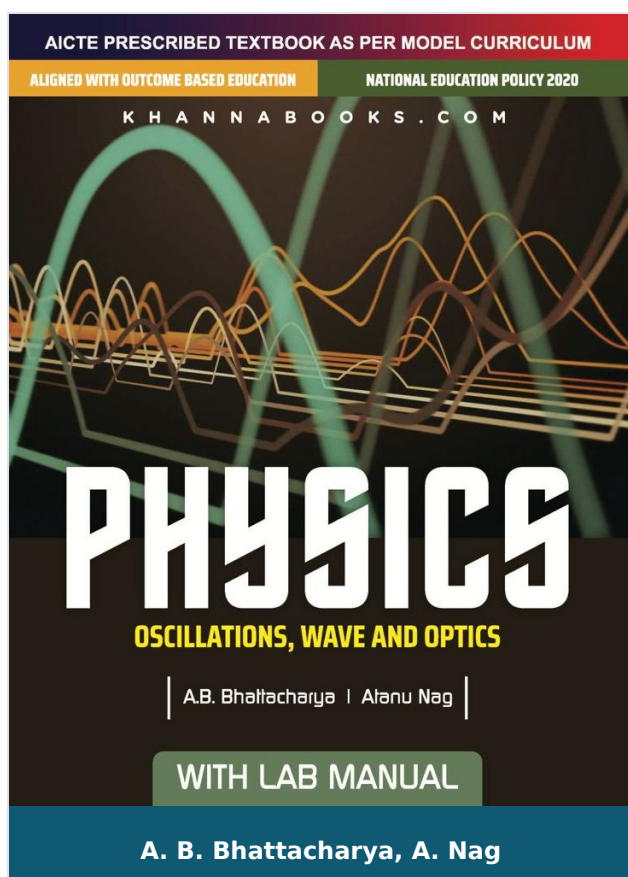
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- Cyber Security and Data Privacy in Urban Telecom Systems
- Planning and Deployment of Telecom Infrastructure in Cities
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- Case Studies of Telecommunication in Smart Cities
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Author

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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 2: Wave Propagation and Dispersion
- The Propagation of Light and Geometric Optics
- Units 4: Wave Optics
- Lasers
- Table of Physical Constants
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Author

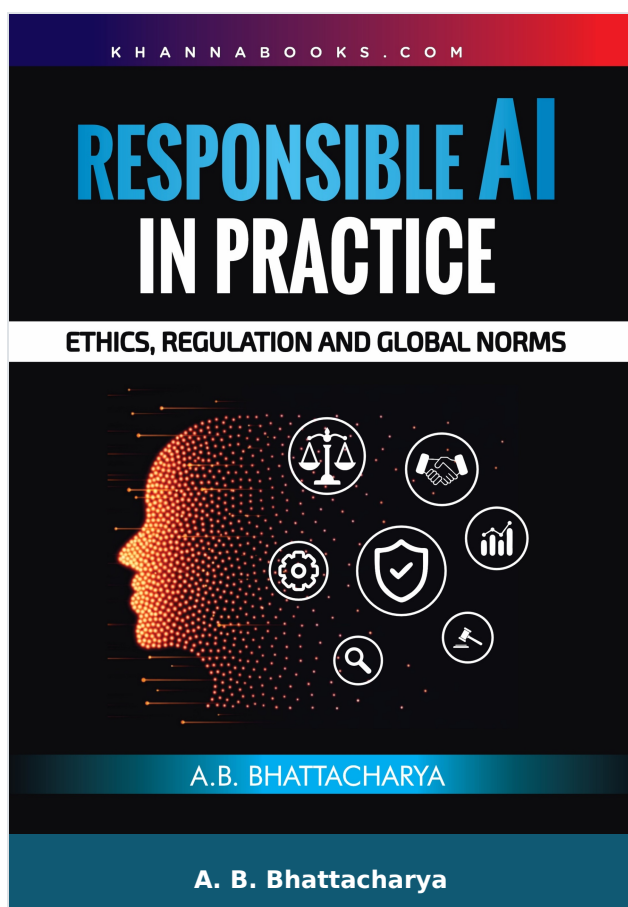
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Responsible AI in Practice (Ethics, Regulation and Global Norms)

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Product Description

Responsible AI in Practice (Ethics, Regulation and Global Norms)

Responsible AI in Practice: Ethics, Regulation and Global Norms serves as a vital compass for navigating the complex intersection of cutting-edge technology and human values. In an era where Artificial Intelligence has moved from science fiction to a pervasive social force, this book addresses the urgent question of how to ensure AI serves humanity rather than undermining it. It transcends abstract academic debate by bridging the gap between philosophical reflection and real-world implementation, offering a practical guide to transforming high-level ethical principles into actionable product designs and regulatory enforcement.

The text meticulously explores the evolving tapestry of global AI governance, from the European Union's AI Act to UNESCO's global guidelines, providing a multidimensional view of how different nations are crafting a shared ethical language for machines. Designed for a broad audience, it speaks directly to policymakers drafting laws, engineers embedding ethics into code, researchers probing machine learning boundaries, and engaged citizens seeking to understand the societal mirror that AI represents. By weaving together case studies, ethical checklists, and comparative legal insights, the book empowers readers to act as responsible custodians of transformative technology.

Salient Features: -

- **Practical Frameworks for Ethical Design:** The book moves beyond theory to provide a "roadmap" for embedding fairness and accountability directly into AI architecture. It offers technical toolkits for mitigating bias and solving the "Black Box" problem through Explainable AI (XAI), ensuring systems are both transparent and trustworthy.

- **Global Regulation and Human Rights:** It provides a comprehensive analysis of the international regulatory landscape, including the EU AI Act and UNESCO guidelines. This focus extends to protecting fundamental human rights against risks like mass surveillance, profiling, and the unethical use of autonomous systems.
- **Sustainable and Future-Ready Innovation:** The text prepares readers for emerging shifts-such as Generative AI and deepfakes-while advocating for "Green AI." This vision balances technological advancement with ecological sustainability and the promotion of equitable economic opportunities worldwide.

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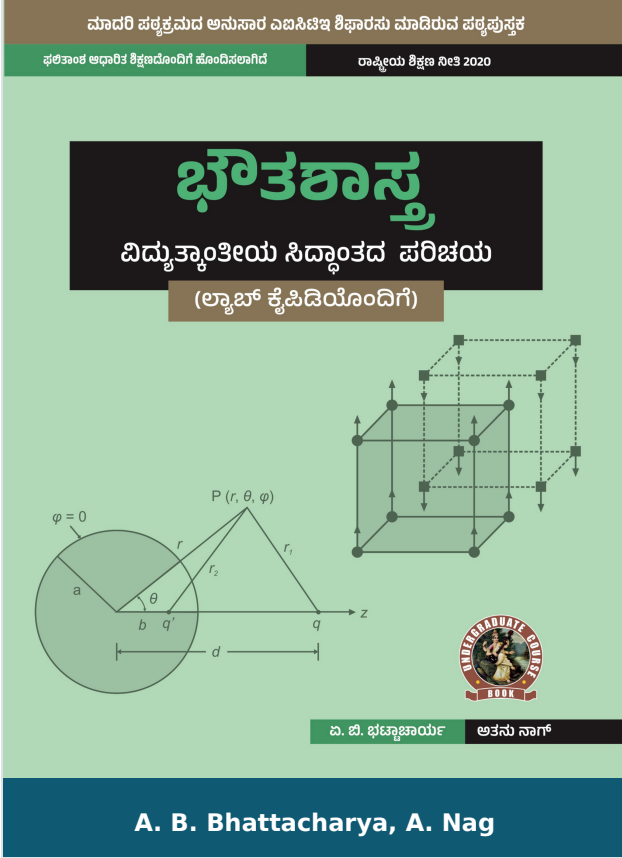
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- Building Ethical AI: Frameworks, Tools and Best Practices
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- Appendices

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Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

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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:

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 types of medium and advanced level problems in a very logical and systematic manner.
3. Some essential information for the users under the heading "know More" for clarifying some basic
4. 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 sector or in national laboratories at the very forefront of technology.

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- Faraday's Law
- Maxwell's Equations
- Electromagnetic Waves
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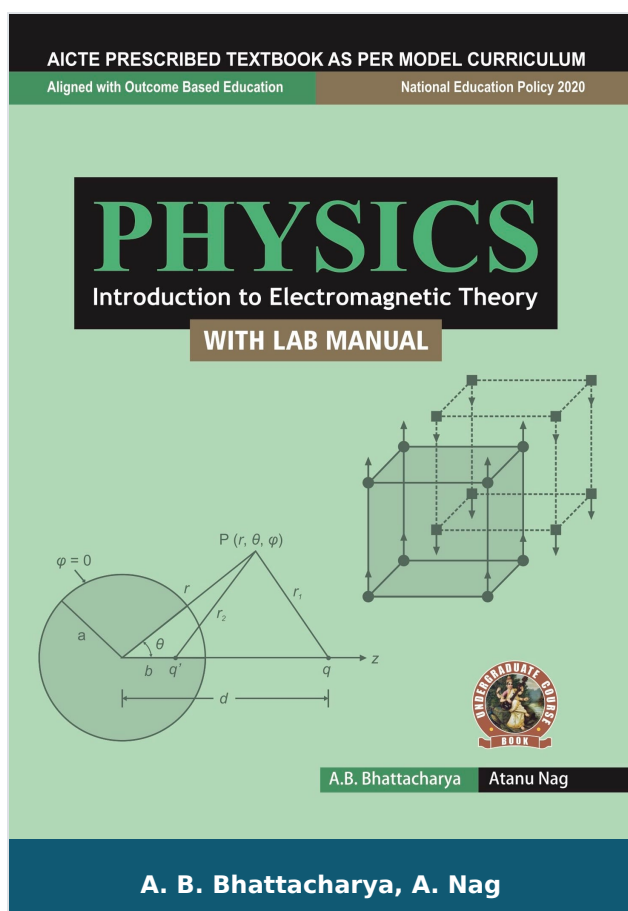
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