

Foundations of Quantum Technology with Lab Manual

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Product Description

Foundations of Quantum Technology with Lab Manual Explore the Future — Learn the Fundamentals — Master the Tools Step into the next revolution in science and technology with Foundations of Quantum Technologies (with Lab Manual) — an all-encompassing guide designed for students, educators, and researchers aiming to understand and work with the principles and real-world applications of quantum mechanics. **WHAT'S INSIDE Part I: Fundamentals of Quantum Mechanics** Begin your journey with a deep dive into the origin and evolution of quantum theory. Understand wave-particle duality, measurement postulates, and the ground-breaking concept of quantum entanglement. Enrich your learning with multiple-choice questions, solved numerical problems, and project ideas at the end of each chapter. **Part II: Core Quantum Technologies** From quantum computing and cryptography to teleportation and metrology, discover how abstract quantum principles power the innovations shaping tomorrow. Learn algorithms like Shor's and Grover's, and explore secure communication via the BB84 Protocol. **Part III: Experimental and Practical Aspects** Get hands-on with quantum hardware platforms like superconducting qubits, trapped ions, and photonic systems. Study experimental realizations from IBM Q, Google Sycamore, and more. It includes detailed insights into quantum gate implementation and optical elements in labs. **Part IV: Lab Manual** Bridge theory with practice in your own quantum lab. Conduct real-world experiments on polarization, entanglement, BB84 protocol, and quantum algorithms using cloud platforms. Learn essential tools like QuTiP, Qiskit, and Cirq for simulating and analyzing quantum systems. **Also Includes**

- Conceptual short Q&A
- MCQs and numerical problems with solutions
- Design-driven project tasks
- Oral questions for viva preparation
- Reference tables for quick access

Whether you're a curious beginner or an aspiring quantum researcher, this book offers a robust, intuitive, and experimentally rich learning experience to help you navigate the quantum frontier.

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Part I: Fundamentals of Quantum Mechanics **Part II:** Core Quantum Technologies **Part III:** Experimental and Practical Aspects **Part IV:** Lab Manual



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Author

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





Modern Concepts of Communication Systems

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Product Description

The Proposed book Modern Concepts of Communication Systems is considered as one of most respected and authentic texts in the field of communication systems and engineering. Its profound mathematical treatment, clarity of concepts rich set of assignment problems and of course, novelty in approach defined in many way how analog or digital communication are taught in engineering college. The book is covering almost all the parts of syllabus of M.D. University, Rohtak, Gautam, Buddha University, Lucknow, Mahamaya University, Noida, old UPT University K.U. Kurukshetra etc. Communication systems are a core subject for undergraduate course in Electronics and Communications, and Computer Engineering. It is also offered as a special subject for undergraduate courses in Electronical and Instrumentation Engineering, and for postgraduate course in Physics, Electronics and Computer Science. This book is primarily intended to serve as a textbook for undergraduate course in Electronics and Communication Engineering.



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Author

B.M.K. Prasad, B.M.K. Prasad is a principal Of Dronacharya College of engineering , Gurgaon. **Amrit Bawankan**, Larson and Toubro Ltd. ECC Division, Gurgraon. **Aparna Bwankana**, Dronacharya College of Engineering Greater Noida (U.P.)

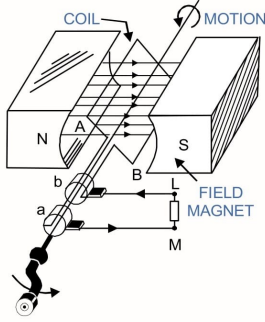


ಮಾದರಿ ಪಠ್ಯಕ್ರಮದ ಪ್ರಕಾರ AICTE ಶಿಫಾರಸು ಮಾಡಿದ ಪಠ್ಯಪುಸ್ತಕ
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ಪ್ರಯೋಗಾಲಯ ಕೈಪಿಡಿಯೊಂದಿಗೆ



ಎಸ್. ಕೆ. ಸಹದೇವ್

Basic Electrical Engineering (with Lab Manual)

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Product Description

This textbook "Basic Electrical Engineering" is based on the latest syllabus of the Universities AICTE and Educational Institutes. In this edition, some material of the book has been rewritten to make the presentation easily comprehensible. More illustrative examples mainly from IAS, IES and GATE and other competitive examinations have been added. Various problems with answers have been added to support the text. For quick revision, summary/ highlights are given at the end of each chapter. Salient Features: 1. DC Circuits 2. AC Circuits 3. Transformers 4. Electrical Machines 5. Power Converters 6. Electrical Installations



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Chapter 2: AC Circuits

Chapter 3: Transformers.

Chapter 4: Electrical Machines.

Chapter 5: Power Converters.

Chapter 6: Electrical Installations.

Author

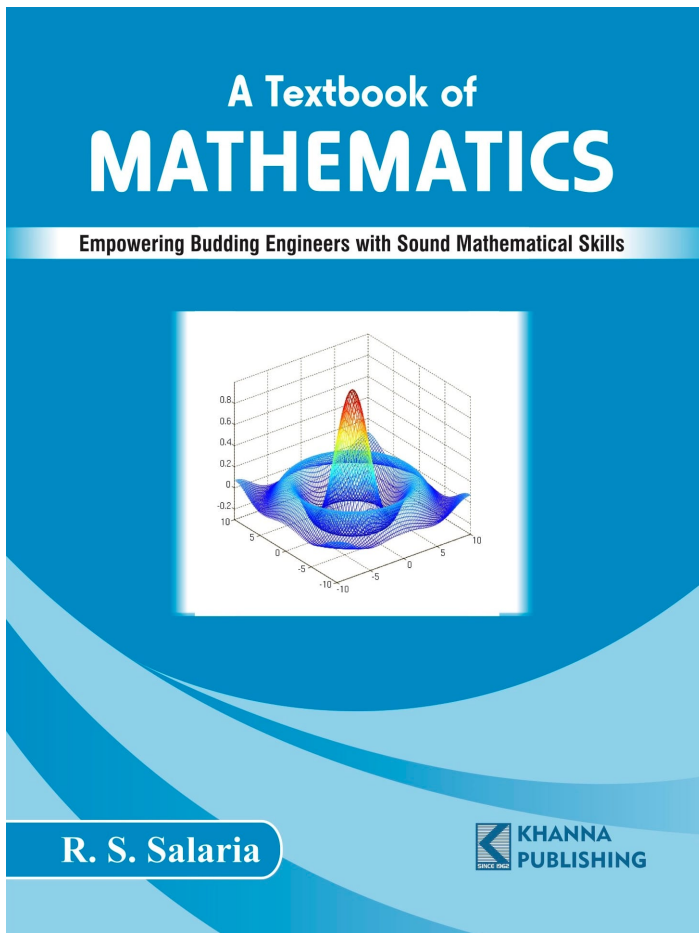
S. K. Sahdev



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A Textbook of Mathematics

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Product Description

This book is designed to serve as a textbook for the students taking this subject. It is a book with a difference from other textbooks as it lays more emphasis on the conceptual concepts that are supported by illustrative examples, plenty of challenging theory and programming exercises, to test your knowledge acquired on the subject.

While writing the book, special emphasis is given to keep the language very simple and lucid level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease. Practically this book will provide you every things you need on the subject.



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Author

R.S. Salaria Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living.



K H A N N A B O O K S . C O M

AICTE RECOMMENDED TEXTBOOK



ARCHITECTURE and BUILDINGS

A.K. Jain

Architecture and Buildings

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Product Description

ARCHITECTURE and BUILDINGS: An architect is defined as master builder, one who design buildings and superintends their erection, and the architecture as the art and science of the buildings. Architecture is one of the few professions which strike a balance between technical, artistic, practical, economic and social considerations. Every building is a part of ecological system and has a footprint It means taking a wide-angle view of the architecture in the context of urbanism, ecology and environment, including, bio-diversity and natural resources, water and energy. As such, architecture is changing from functional to organizational, from architectonic to urbanism and from building' provides a comprehensive and narrative on history of architecture, Indian architecture, vastu, the basic of design, green building, building resources and technology, planning and design .



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Author

A.K. Jain

A.K. Jain, as Commissioner (Planning) Delhi Development Authority worked on the Master Plan for Delhi-2021, National Urban Housing and Habitual Policy, National Urban Transport Policy and various urban projects. He was a member of the Committee Constituted by the Ministry of Urban Development, GOI to review the statute of the Delhi Development Authority vis-a-vis the changing urban scenario and new policy initiatives. As a member of editorial Board of International Journal of Environmental Studies (UK) and is author of several books on urban development and management. He is visiting faculty at Delhi School of Planning and Architecture and other Institutes. He was awarded 2nd Urban Professional Award 2014 at World Urban Forum in Medellin, Colombia in recognition of being an exemplary city changer. Union Minister for Urban Development honored him with IBC Lifetime Achievement Award (2016).





Shrikant B. Vanakudre | Ashish A. Yaligar

PRESTRESSED CONCRETE

Materials, Analysis and Design



Prestressed Concrete

Author :	Ashish A. Yaligar
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Product Description

Prestressed Concrete provides a comprehensive coverage of the theoretical and practical aspects of the subject and includes the latest developments in the field of prestressed concrete construction. It incorporates the latest Indian Standard specifications and codes regulating prestressed concrete construction. The book introduces the properties of the materials and Prestressing systems used in the PSC construction. Topics discussed on analysis of PSC sections for flexure, deflection, shear and torsion. In addition to this, analysis and design of various prestress concrete elements such as continuous beams, composite sections, one way slabs, two way slabs, flat slabs, grid floors, compression members, tension members, pipes, piles and tanks are discussed. Analysis and design of various PSC structures such as bridges, sleepers, pavements and poles are also covered. Construction techniques are well illustrated through numerous figures and a number of illustrative examples. Objective questions illustrated are quite useful for those appearing for competitive examinations. The content of this book serve the needs of both students and professionals. Salient Features:

- Ø Presents a blend of theoretical and practical aspects.
- Ø Incorporates the provisions of the latest code, IS: 1343, in prestressed concrete.
- Ø Supports theory with illustrations and photographs.
- Ø Reinforces theoretical concepts by providing solved examples, review questions, exercise problems and objective questions.
- Ø Pedagogy:
 - o 274 Figures
 - o 106 Solved Examples
 - o

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Author

Dr. Shrikant B. Vanakudre is presently working as Principal, S.D.M College of Engineering & Technology, Dharwad, Karnataka India. He has been Head of the Civil Engineering Department and Dean (IPD) at SDMCET Dharwad. Completed his B.E in Civil Engineering from University of Mysore, M.E. in Structures from Shivaji University and Ph.D in Structures from Visvesvaraya Technological University, Belagavi. He has around 30 years of teaching experience & worked as structural consultant as well and has 10 years of research experience. He has published and presented 40 research papers in National and International Journals & Conferences. He is guiding 3 research scholars under Doctoral Degree programme. His areas of interest are Concrete Technology, Reliability Analysis and Design of Structures etc. **Ashish A. Yaligar** is presently pursuing Ph.D (Full Time) in Department of Civil Engineering under the guidance of Dr. Shrikant B. Vanakudre, Principal S.D.M College of Engineering & Technology, Dharwad, Karnataka, India, affiliated to Visvesvaraya Technological University, Belgavi. Completed his M.Tech. in Structural Engineering from Government Engineering College Haveri, Karnataka and B.E in Civil Engineering from P.D.A. College of Engineering, Kalaburagi, Karnataka. He has 4 years of research experience and published 3 research papers in journals & 3 research papers in International Conferences. His areas of Interest are Concrete Technology, Analysis and Design of Structures etc.

