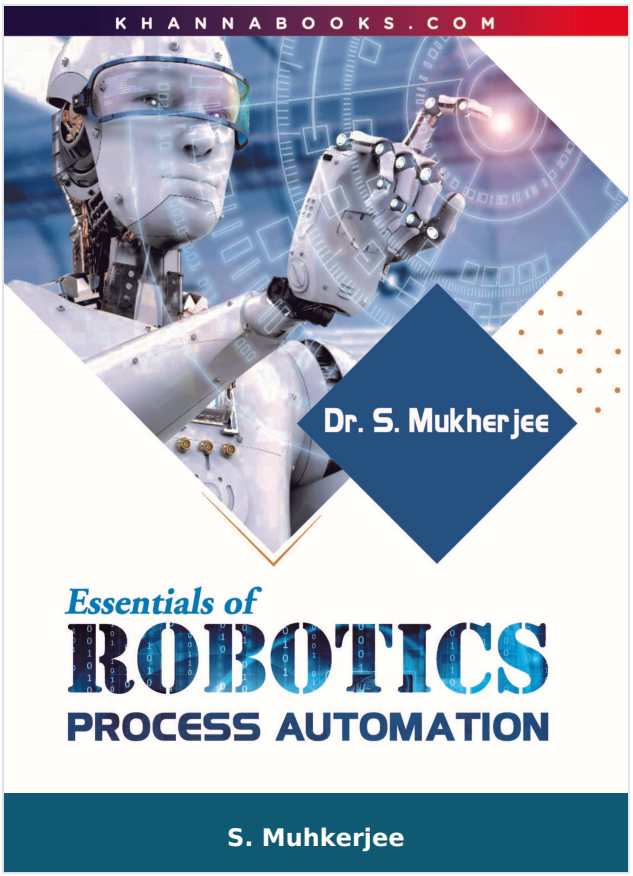

Essentials of Robotics Process Automation

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This Robotics Process Automation book describes the RPA platform for the future of business process automation. More precisely this RPA book has tried to innumerate the followings:

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2. RPA helps to get rid of resource burden and it's consequences.

3. This emphasizes Business process automation must be in the hands frontline.

4. Only Automation Anywhere Enterprise combines consumer-like usability with enterprise-class reliability, and security for RPA that empowers the workforce to automate on their own, in real time.

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Increase speed and productivity

Maximize availability

Improve business process compliance

Improve controls

Improve auditability

Enhance security

deliver business intelligence

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Improve employee morale

6. Putting RPA to work and deploy your digital workforce in your businesses like insurance, finance, manufacturing and health care and also other.

Deploy, manage and audit your Digital Workforce through a highly-intuitive RPA central command center, on-premise or in the cloud.

This RPA book also enable you to learn more about AI and machine language also factory automation, safeguard your data, analyze old predict business performance, streamline your blended anywhere, big data ready for analytics.

This book is made for BS/B,TECH and MS/M.TECH/MCA/MBA student who will have in-depth knowledge about RPA and its associated technologies falls in the same platform.

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- Drives and control system
- Kinematics
- Robot Actuation and Hardware Interface
- Robotics Process Automation Impacts on Business
- Case Study (List of Practicals)
- RPA Interview (Questions and Answers)

Author

S. Muhkerjee

S. Muhkerjee Dr. Santosh Mukherjee is at present working as Chief Architect cum Chief Scientist and President of Santech International Inc.(San-Lab). Dr. Santosh Mukherjee is an young, award winning, widely proclaimed energetic and emerging Technologist & Scientist, who is one of the pioneer in the Technology fields of Digital technology focus-sing in Telecommunication/Nanotechnology, and Power/Medical Tech specializes in convergence connectivity, with 30 yrs professional experiences with Fortune 100 USA organization as Senior VP Innovation and Chief Scientists. Having experience to work as academia with the best Universities of USA, having qualification of D.Sc and PhD in the relevant field of interest. He has many patents approved by USGOV and also few are in the process. He is joint patent holder of many patents, during his service career with the Above companies He has published four similar kinds of technological books. He is associated with IEEE, World Bank , American Management Association, NJTC, Asian Development Bank, Member of Indian Govt. Tech Diaspora and Knowledge Commission.

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Recipients of the award, "Best Technologist & Emerging Scientist of the Year 2003" from Chair person of Science and Tech Commission, USA in the Capitol Hill, but it Washington His leadership also include in accomplishing to develop an NRI Complex in India of American. He is “Technical Advisor “ of Federal Commission of USA of “ Science & Technology “ and “Energy” from 2010 .

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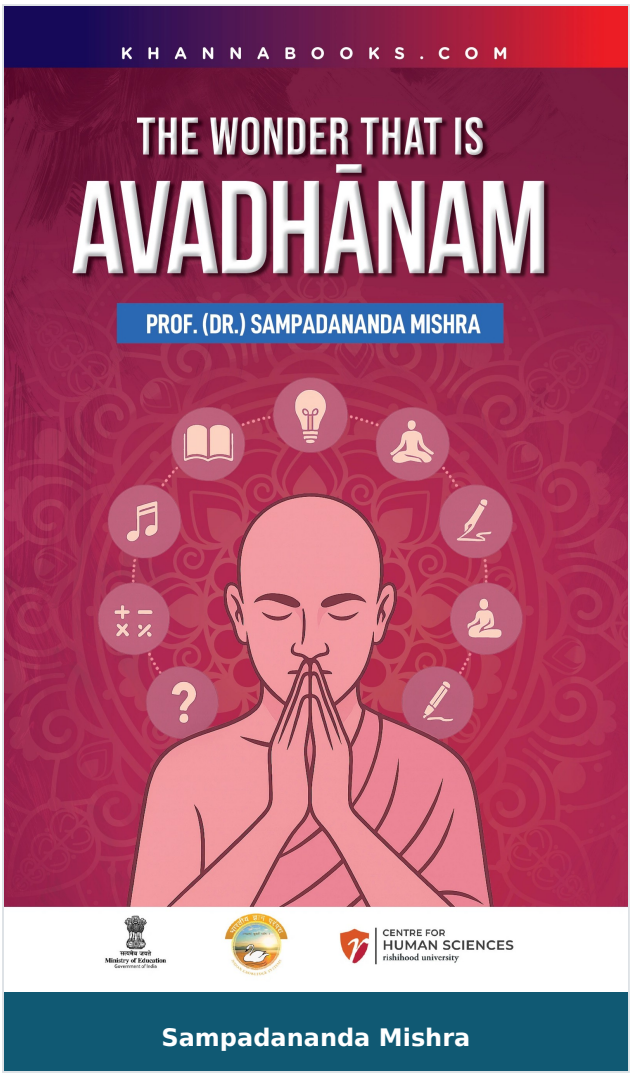

The Wonder That is Avadhanam

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Product Description

The year 2000 holds a special place in my heart because that's when I first discovered something truly magical – Avadhāna. It happened during a seminar in Pondicherry, and little did I know that this art form would become a source of inspiration and wonder in my life. I was part of the team organizing an Avadhāna program, and my job was simple. But what unfolded on that day was anything but ordinary. Avadhāna, which once seemed like a distant and mystical concept, came alive before my eyes, challenging my skepticism and leaving an unforgettable impression. Watching the Avadhāna performance was like witnessing a breathtaking dance of the mind. The performer's skill, speed, and brilliance pushed the boundaries of what I thought was possible. It was more than just a show; it was a journey into a world where intellect and creativity danced together in perfect harmony. Since that day, my life has been a journey of exploration into the art of Avadhāna. I felt a deep connection and a need to share its wonders with the world. I realized there was a missing piece—a book that could introduce Avadhāna to those curious about it, a guide for those wanting to understand its essence. As I delved into the details of Avadhāna, I discovered not just a skill but an endangered art form in need of recognition. It became clear that the survival of Avadhāna depended on creating awareness—helping people see its beauty, challenges, and importance in our cultural heritage. In my quest to understand Avadhāna, I stumbled upon the remarkable life of Vasishtha Ganapati Muni, a true master of Avadhāna. His ability to vi perform Avadhāna was extraordinary, and learning about his life became a fascinating part of my exploration. His anecdotes of composing poetry on the spot and rearranging complex syllabic structures during Avadhāna were awe-inspiring. Vasishtha Ganapati Muni, a shining star in the world of Avadhāna, became a source of inspiration for me. His journey not only showcased the heights achievable in Avadhāna but also left an everlasting mark on this ancient tradition. His story has become a guiding force, pushing me to unravel the layers of this intricate art form and share its beauty with the world. Ganapati Muni's

incredible skills in Avadhāna were truly mindblowing. In one event in Madras, he was challenged to compose a hundred verses on Nala and Damayanti's story in just an hour. Muni's creative flow was so rapid that he crafted twenty-five verses in just six minutes, leaving everyone in awe. His prowess in rearranging syllables in a challenging verse and even reciting it backward showcased his brilliance. At the end of an Avadhāna, he flawlessly critiqued a famous verse, leaving the audience thunderstruck. These moments from his journey highlight the intricate brilliance and indomitable memory power needed in Avadhāna. Following in Vasishtha Ganapati Muni's footsteps, I found not just inspiration but a deep connection to the heart of Avadhāna. His extraordinary abilities reminded me that within the realms of memory, creativity, and intellectual agility, there's a universe waiting to be explored—an invitation to witness the wonders of the human mind through Avadhānam. Continuing my exploration, I discovered two more incredible stories: G N K Ramaswaroop from Enkoor village and Nishchal, a nine-year-old prodigy from Hyderabad. Their stories shed light on Avadhānakalā, the ancient art of multiple concentration. Ramaswaroop, focused on the Bhagavad Gita, amazed audiences by memorizing all 700 shlokas. His performances weren't just recitations; they were a dance of intellect, responding swiftly to questions in various forms. Whether reciting a shloka given a starting word or number, identifying a shloka when recited in reverse, or engaging in the rhythmic Preface vii antyakshari of Gita verses, Ramaswaroop showcased mental agility that set him apart as a true master of Avadhānakalā. Then there's Nishchal, a nine-year-old maths whiz from Hyderabad. While others focused on poetry, Nishchal channeled his concentration and mind power into solving complex maths problems and memorizing 20-digit numbers effortlessly. His feats proved that Avadhānakala goes beyond language and subject matter, captivating audiences with the beauty of mathematics. Colonel H. S. Olcott, an American military officer, journalist, lawyer, and the co-founder and first President of the Theosophical Society, writes in one of his articles published in 'The Theosophist magazine for 1886', about an occasion on which a memory expert of South India simultaneously kept in mind and did the following twelve things and afterward

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Sampadananda Mishra

Dr. Sampadananada Mishra, a distinguished scholar in Sanskrit and indian Knowledge Systems (IKS), has dedicatedhis life to the study, preservation, and propagation of india's richlinguistic and philosophical heritage. He holds a BA and MA in Sanskrit from utkal University, where he also completed his Ph.D.with a dissertation on the evolution of the Sanskrit language, inspired by Sri Aurobindo's perspectives. Dr. Mishra is renownedfor founding the World's first 24-hour Sanskrit radio channel, Divyavani Sanskrit Radio, in 2013, adFor his role as Associate Editor of the ' Collected Works of Vasishtha kavyakantha Ganapati Muni; a landmark twelve- volume publication . His contributions to Sanskrit have earned him several prestigious awards, Including the president's Maharshi Badarayana Vyasa Samman and the Sri Aurobindo Puraskar 2024. His Career has been marked by a passionate commitment to ensuring that Sanskrit and IKS flourish within both academic and cultural landscapes.

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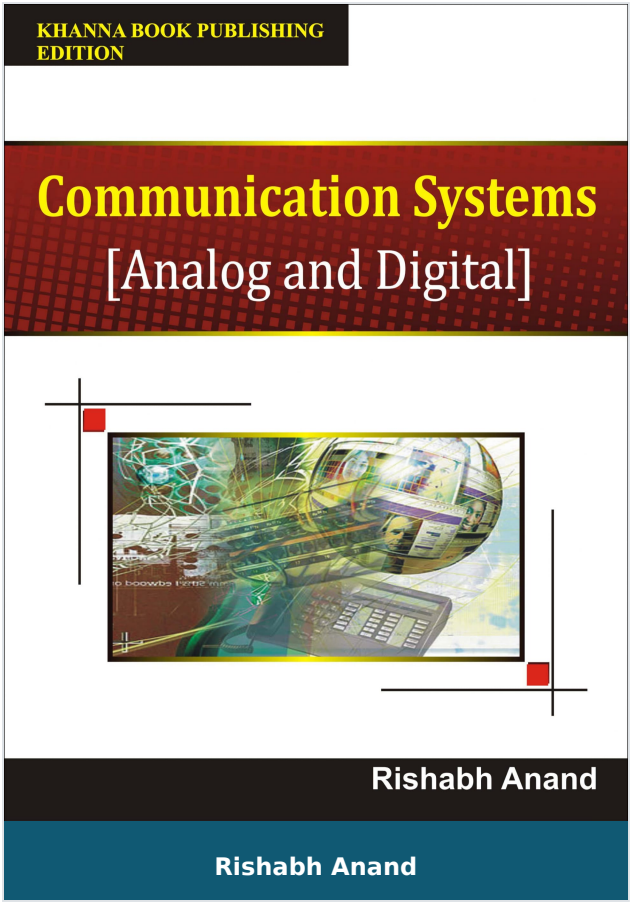

Communication Systems [Analog and Digital]

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Product Description

This book covers the complete latest syllabus of subject as suggested by most of the universities in India. Step-by-step procedures given for solving problems. A bulleted list of important points is listed in the chapter summery. Proper balance between mathematical detail and qualitative discussion. Moving from the unknown in a logical manner. At the end of the each chapter, a set of short answer questions and numerical are given for quick review of chapter concepts. Subject matter in each chapter develops systematically from inceptions. Book is mainly written for undergraduate Technical students, but you will find it helpful to the students who are preparing for various competitive examinations. Large number of carefully selected worked examples in sufficient details. Most simplified methods used. Each chapter of the book is saturated with much needed text supported by neat and self-explanatory diagrams to make the subject self-speaking to a great extent. Simple and lucid style. No other reference is required. Ideally suited for self study.

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Author

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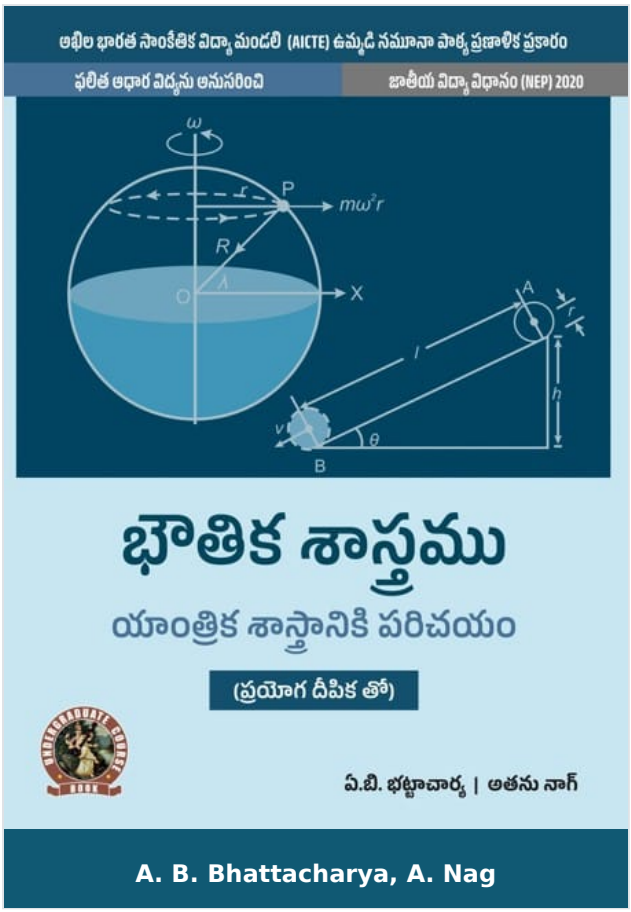

Physics (Introduction to Mechanics) with Lab Manual

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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.

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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 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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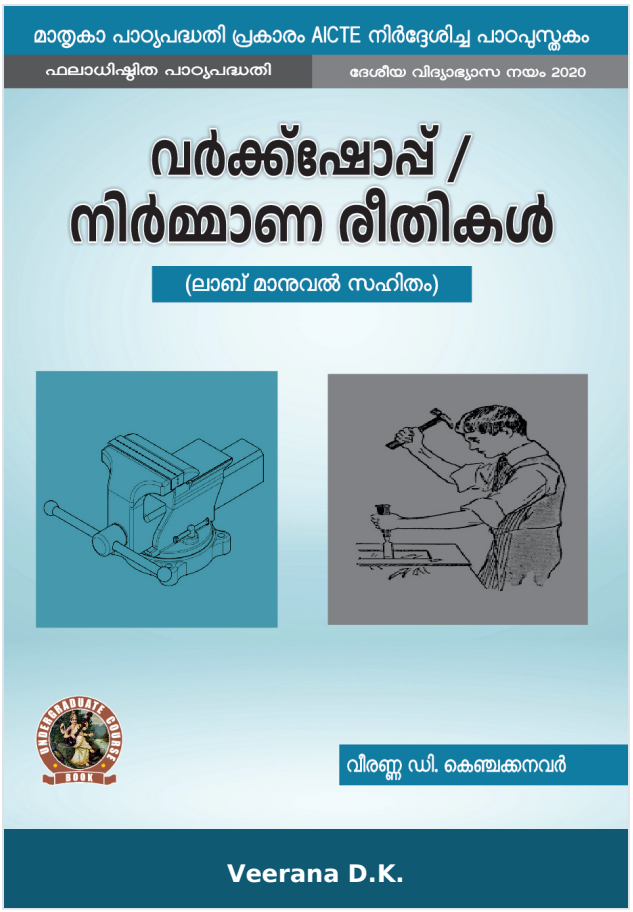

Workshop / Manufacturing Practices (with Lab Manual)

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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.

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- Electrical & Electronic.
- Carpentry, Plastic molding, glass cutting.
- Metal casting, welding (arc welding & gas welding), brazing.
- Part- B: Workshop Practice Laboratory
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Author

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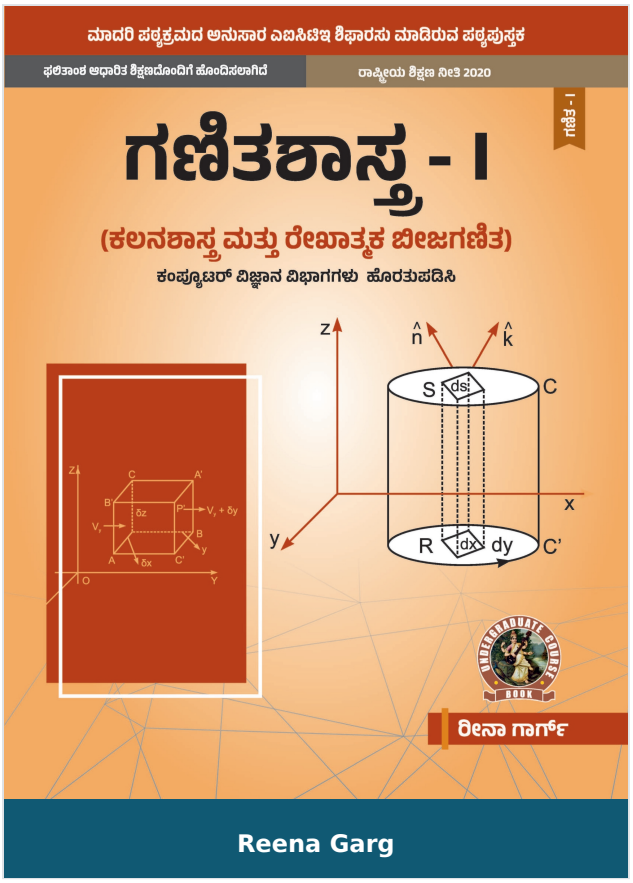

Mathematics I Calculus and Linear Algebra [For Non Computer Science Engineering Branches]

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Product Description

Calculus, Multivariable Calculus and Linear Algebra covers all the Modules prescribed by AICTE. Model curriculum to all the 1st year students (except CSE) studying in engineering institutions and universities of the country. It serves as both text book and / or useful reference work. It contains 5 units which include calculus, matrices, sequences & series and multivariable calculus 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 success the reader understands of the subject. Professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

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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.

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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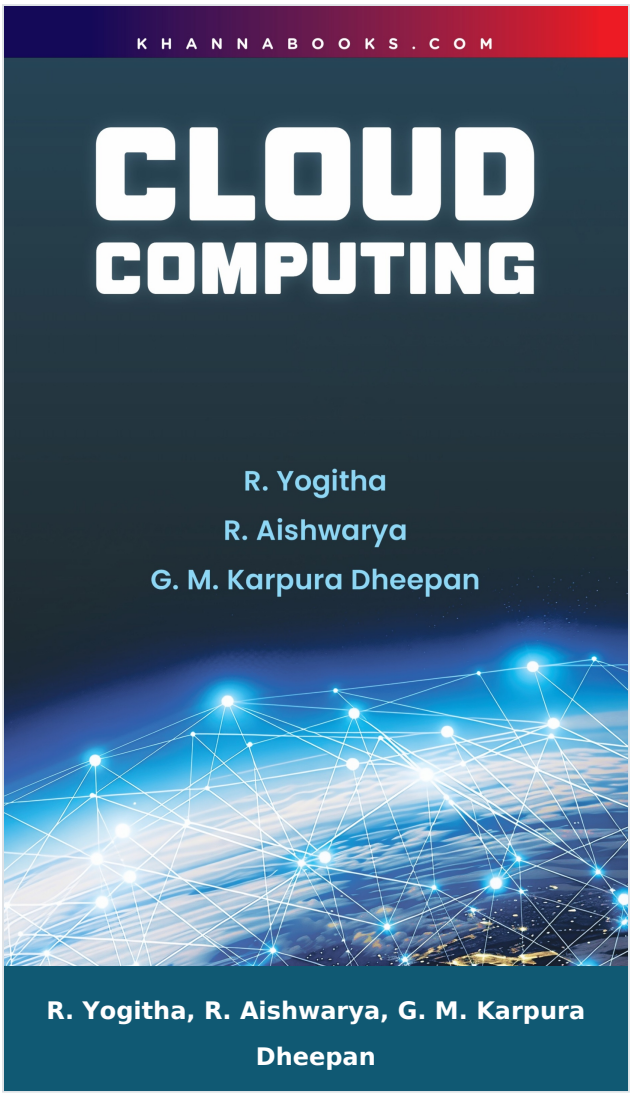

Cloud Computing

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Product Description

Cloud Computing

This comprehensive textbook provides a structured and authoritative introduction to Cloud Computing. guiding readers from foundational principles to advanced real-world applications. It serves as an essential resource urce for students, IT professionals, and researchers seeking to master the technologies that power modem digital infrastructure The book clearly outlines the origins and essential characteristics of cloud environments, such as Rapid Elasticity, Broad Network Access, and Measured Service, setting the stage for deep dives into implementation. It thoroughly examines the cloud infrastructure, covering foundational technologies like data center components, power efficiency metrics (PUE), and the multi-level implementation ofvirtualization across CPU, Memory, and I/O. A significant portion is dedicated to cloud architecture, detailing the fundamental service models (SaaS, PaaS, laaS) and various deployment models (Public, Private, Hybrid). Finally, a major focus is placed on cloud security, detailing the CIA Triad, Zero Trust principles, and modem DevSecOps practices crucial for designing and deploying secure cloud software. By covering these core concepts and modern storage systems (Object. NoSQL Databases), this book delivers both the academic knowledge and the practical value needed to confidently design, manage, and secure scalable cloud solutions.

Salient Features:

- **Core Cloud Characteristics**: The book meticulously details the defining aspects of cloud computing, such as Rapid Elasticity, Meaaured Service. and On-demand Seli service, contrasting them with traditional IT models for a clear understanding of cloud value
- **Advanced Infrastructure**: Features an in-depth exploration of data center design, including.crucial topics like calculating Power Usage Effectiveness (PUE) and

implementing robust power redundancy configurations (N+1, 2N forhigh for high reliability

- **Multi-Level Virtualization**: Explains the foundational role of virtualization by detalling the implementation levels across CPU, Memory, and I/D, including hypervisor types and the mechanics of creating virtual machines
- **Cloud Security Focus:** Provides dedicated coverage of Cloud Computing Software Security. focusing on the CIA Triad (Confidentiality, Integrity, Availability), Zero Trust principles, and legal compliance requirements.
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- **Comprehensive Service Models**: Offers a detailed comparative analysis of the three fundamental service models-laaS, Paas, and Saas complete with their respective features, benefits, and roies within various cloud architecture
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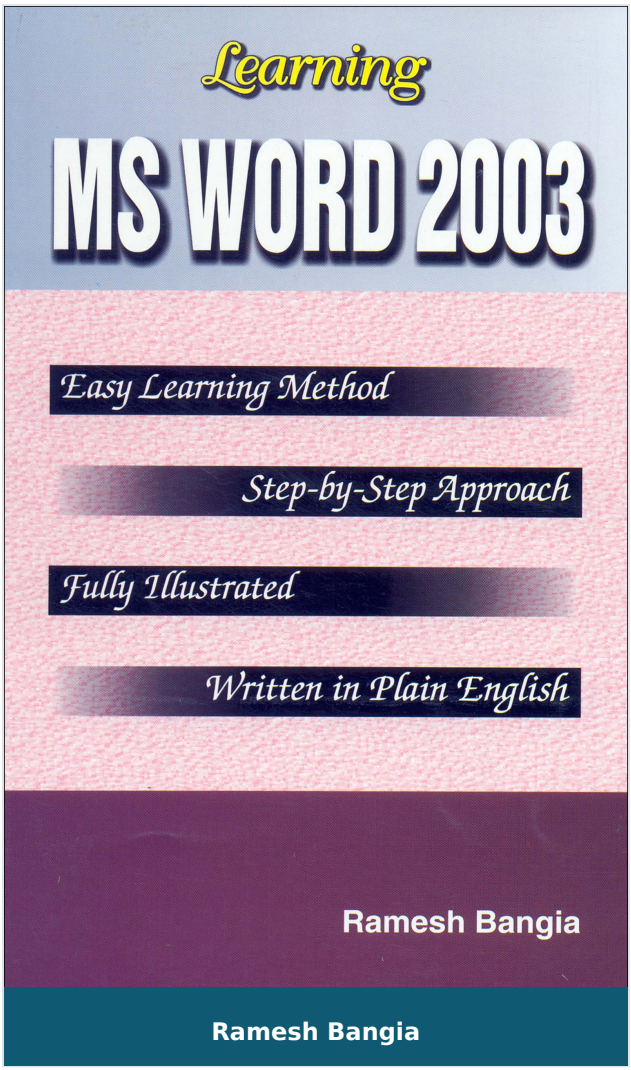

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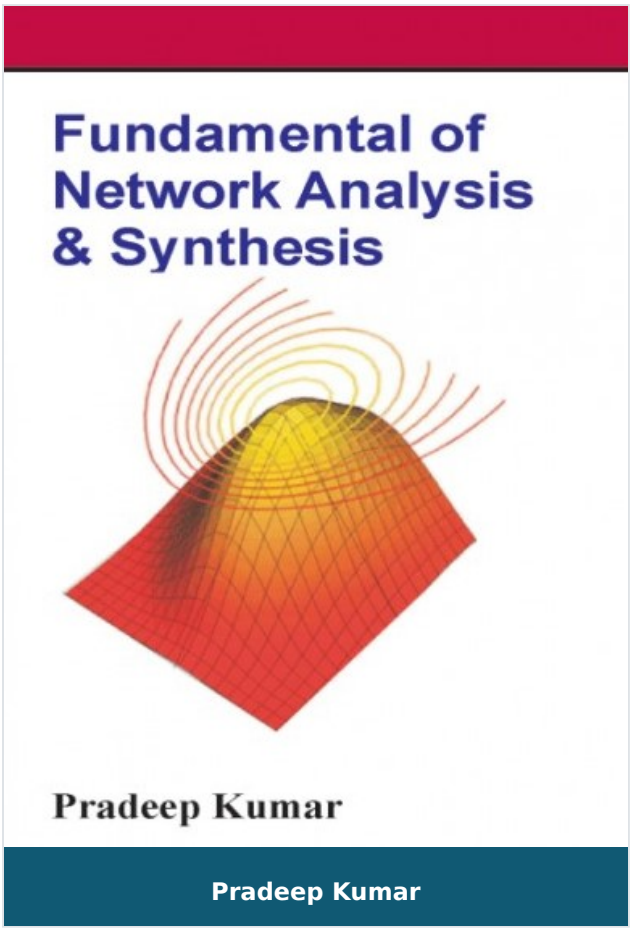

Pradeep Kumar

Fundamental of Network Analysis & Synthesis

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This book is written according to new revised syllabus of U.P. Technical to Electronics and communication Engineering, Electronics and Instrumentation Engineering. This book is providing the knowledge in depth for fundamentals of network analysis and synthesis, amplitude and phase response, two port networks, designing of the active and passive filters with suitable number of examples. This book has evolved the lecture material prepared by the author to teach the course network analysis and synthesis. The material provided in this book is in a lucid manner along with very simple language. The students can easily grasp the information. each chapter is written in the systematic manner along with the coverage of the basic theoretical concepts, analytical techniques also with sufficient examples.

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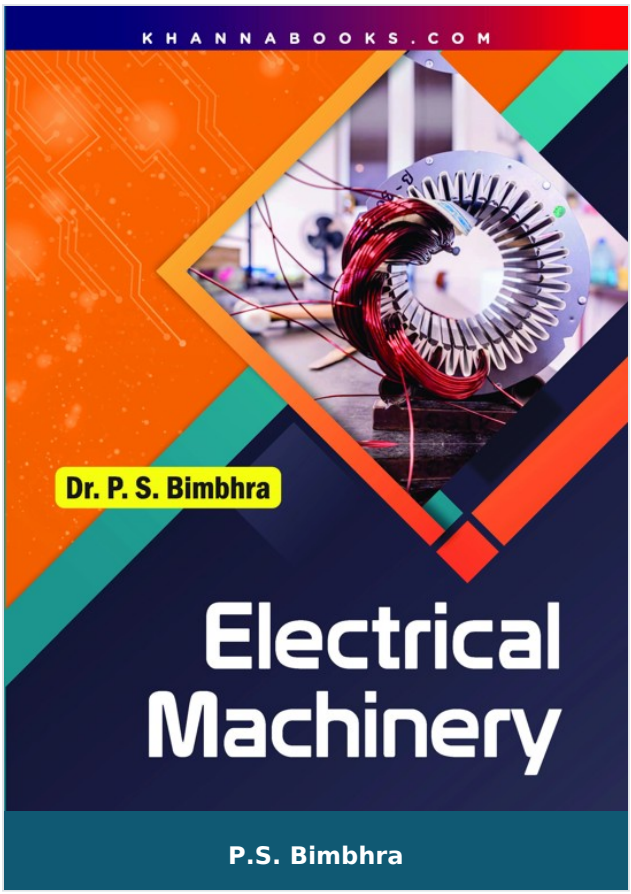

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This thoroughly revised and updated edition presents a rigorous and comprehensive treatment of transformers and more common types of rotating electrical machine types. Each chapter begins with rudimentary concepts and is so developed that an average student can easily comprehend it. The salient features of this book are :

In-depth coverage of transformers, dc machines, 3-phase synchronous, and induction machines.

Highlights that electrical machines operate on the same basic principles.

Devotes a chapter on electromechanical-energy conversion principles and another on dc/ac machine windings.

Drive aspects and applications are discussed for each machine type.

Clarity of presentation is enhanced by illustrative figures and examples selected from question-papers of important Universities, IAS, IES, and GATE.

Includes numerous problems, conceptual questions and objective-type questions (with answers) to help the reader master the basic concepts.

This edition includes a chapter on “basic principles of electrical machines.”

All these features contribute towards making this book an ideal text for undergraduate students of degree classes. Practicing engineers, through self-study, will also find this volume useful to them.

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