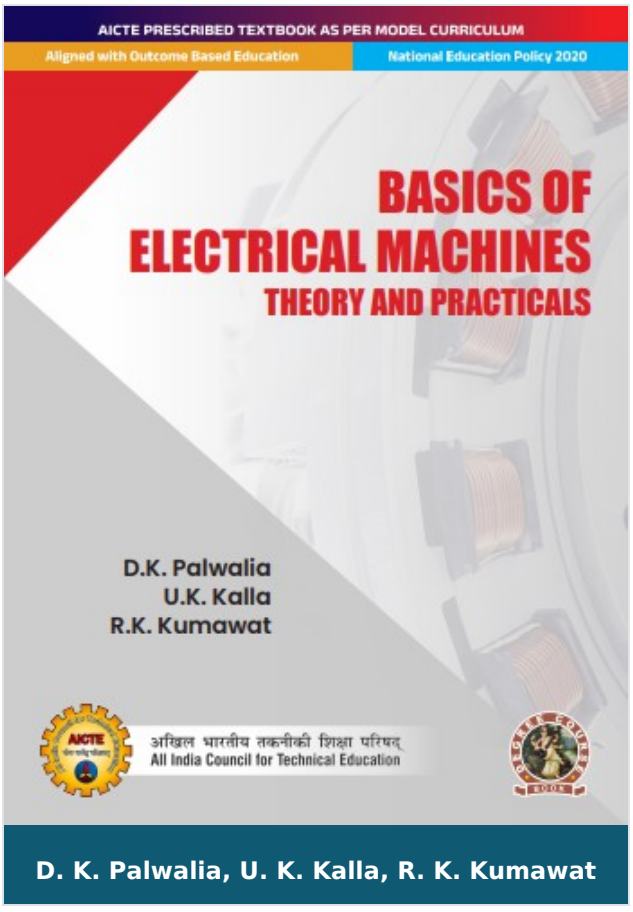


Basics of Electrical Machines: Theory and Practicals

Author :	D. K. Palwalia, U. K. Kalla, R. K. Kumawat
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Product Description

Basics of Electrical Machines: Theory and Practicals

The Basics of Electrical Machines: Theory and Practical" is a comprehensive guide that provides a solid foundation in the principles and practical applications of electric machines. It covers magnetic circuits, electro-mechanical energy conversion, DC motors and generators, and transformers. By exploring these topics, readers gain insights into the fundamental principles of electric machines and their role in various industries. The book strikes a balance between theory and practice, offering clear explanations, examples, case studies, and problem-solving exercises. It aims to equip readers with a comprehensive understanding of electric machines and bridge the gap between theoretical concepts and their practical applications.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In 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, 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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- DC Machines
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- Transformers
- Appendices
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- Index

Author

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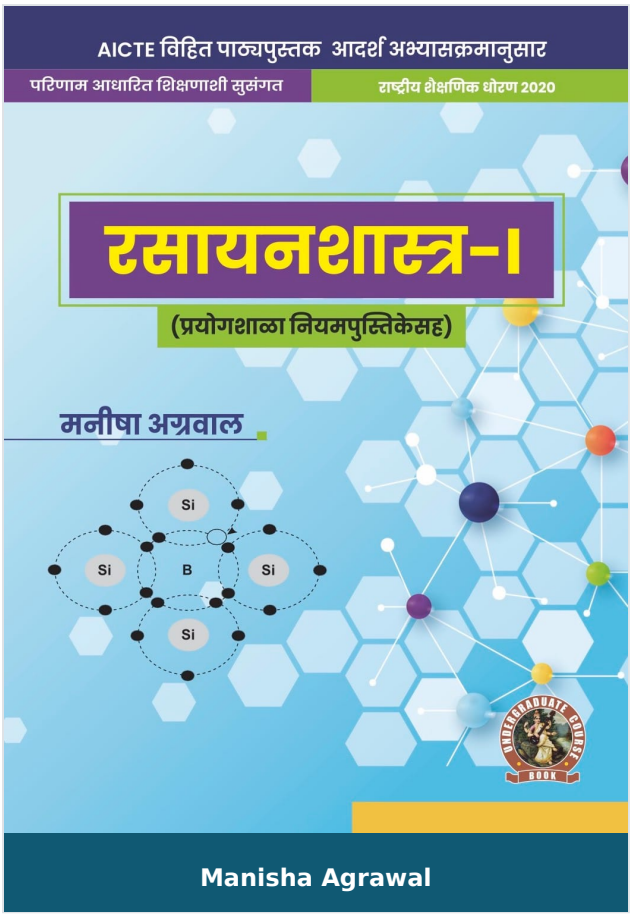
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Chemistry-I (with Lab Manual)

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Country Origin :	India

Product Description

“Chemistry-I” is a compulsory paper for the first year Undergraduate course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

Book covers seven topics- Atomic and molecular structure, Spectroscopic Technique and applications, Inter-molecular Forces and Potential Energy Surfaces, Use of Free Energy in Chemical Equilibrium, Periodic Properties, Stereo-chemistry, Organic Reactions and Synthesis of Drug Molecules. Each topic is written is easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test student’s comprehension.

Salient Features:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book Provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for us of ICT, Projects group discussion etc.

3. Students and teacher centric subject materials included in book with balanced and chronological manner.

4. Figures, tables, chemical equations and comparative charts are inserted to improve clarity of the topics.

5. Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

6. Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Reactions Synthesis of Drug Molecules
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Author

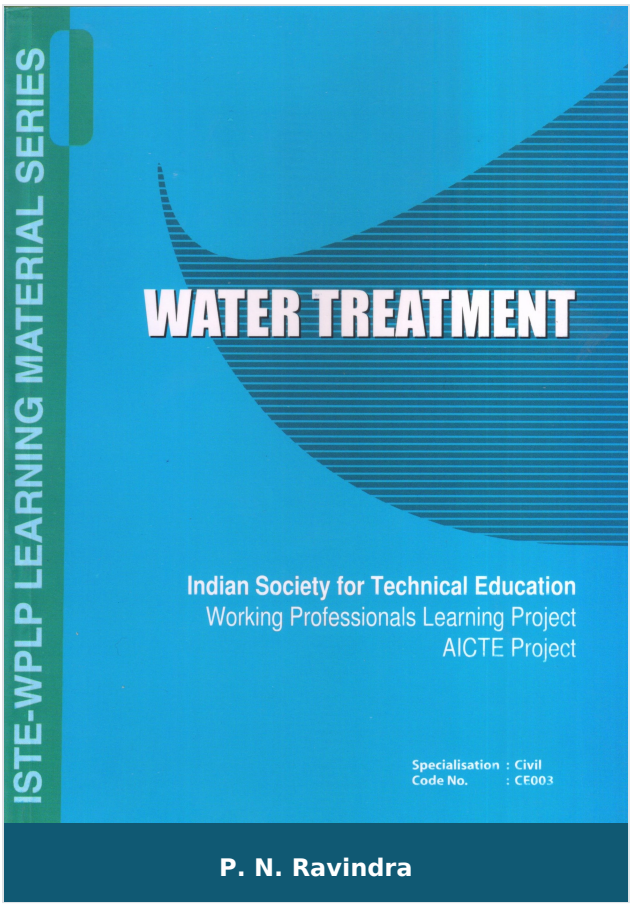
Manisha Agrawal

Manisha Agrawal Dr. Manisha Agarwal is Dean, Basic Sciences at Chhattisgarh Swami Vivekanand Technical University Bhilai. Professor and head, Department of Chemistry at Rungta College of Engineering & Technology, Bhilai, (C.G.). She completed Ph. D. from Pt. Ravishankar Shukla University, Raipur in 1999. Since then she has been engaged in teaching and research. Dr. Manisha has authored several papers which have been published in SCI indexed International and National journals. She has organised more than 10 Conferences and workshops as convener among them four were International Conferences. She has credited five books as author, three patents as inventor and applicant and six Research Project Grants as Principal Investigator from Government Funding agencies like AICTE, CCOST and CSVTU. She has supervised 5 M. Phil. Students, 12 BE and Diploma students. Presently 6 research scholars are perusing Ph. D. under her supervision.

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Water Treatment

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Product Description

Water works engineers should be aware of the wider issues concerning the principles of wastewater treatment. This in turn requires not only good design engineering, but also better working knowledge of the system. In this context, this book will make a significant contribution for enhancing knowledge from basics to the advancement in the field of wastewater treatment.

This book written under working professionals learning project is with the intention of providing sufficient information and knowledge about the principles of wastewater treatment to the water works engineers. This book comprehensively deal with the basic of wastewater treatment, laying emphasis on current trends. To convey ideas and concepts more clearly, the book contains descriptive diagrams with suitable explanation. The book covers a broad spectrum of material dealing with wastewater treatment, as it is far more than just as update of the existing books on wastewater treatment, which includes the latest concepts and processes. This learning material will also be a useful reference book for planners, administrators, students and general readers. It will be of interest to wastewater treatment. One who reads this book systematically from chapter one will surely acquire an understanding on the concepts of wastewater treatment, including schemes of treatment.

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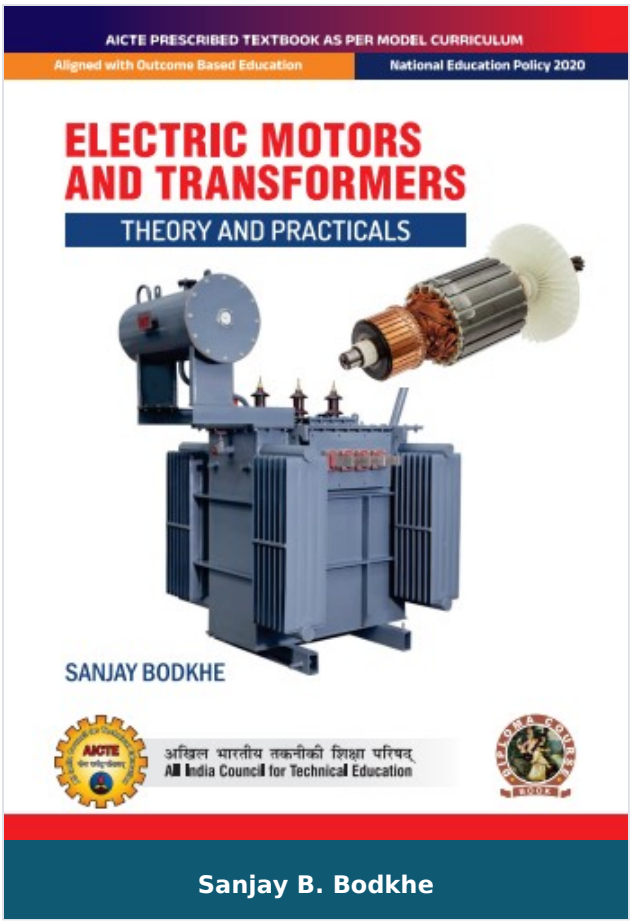
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- Advanced Wastewater Treatment.
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Author

P. N. Ravindra

Dr. P. N. Ravindra The author of this book is working as Assistant Executive Engineering for Bangalore Water Supply and Sewerage Board (BWSSB) and has more than 25 years of working experience in the field of water and wastewater treatment. He has written several books in water discipline and published several research papers. It is a matter of pride and privilege for the author to write a book for his fellow engineers, who can make this book worthwhile. He acknowledges the help he has received from Mr Narayana, Cheif

Engineer, (Retd), BWSSB in reviewing the material and also improving the quality of the book. Special thanks to Prof. NR Shetty, Chairman, Project Advisory Committee, ISTE-WPLP and Er AN Parameswaran, Project Officer and his staff, ISTE-WPLP, who have provided valuable suggestions and carried out the coordination in preparation of this material.



Electric Motors and Transformers (Theory and Practicals)

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Product Description

Electric Motors and Transformers (Theory and Practicals)

This book gives detailed information about the dc motors and the transformers that are considered as a workhorse of industry and heart of power system respectively. Although the modern industrial trend is to use ac motors and the electronically switched motors, the dc motors are still considered as a highly reliable and highly controllable alternative. Transformer is a device which finds an unavoidable application not only in transmission and distribution of ac power, but also in electronic and communication circuits. In this book, every concept is explained in the simplest possible way with maximum number innovative diagrams and examples. Wherever possible, photographs of real systems are provided. Laboratory experiments based on the theory are given at the end of every unit. Although this book is written for the students of diploma level program, it will prove to be useful to undergraduate engineering students as well. The content of this book is as per the syllabus of AICTE and is aligned with outcome-based education as per the National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In 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, illustrations, exercise, experiments. Student centric subject materials included in book with balanced and chronological manner.
- 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 are provided in each unit.

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- Direct current motor
- Single Phase transformers
- Three phase transformers
- Special purpose transformers
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Author

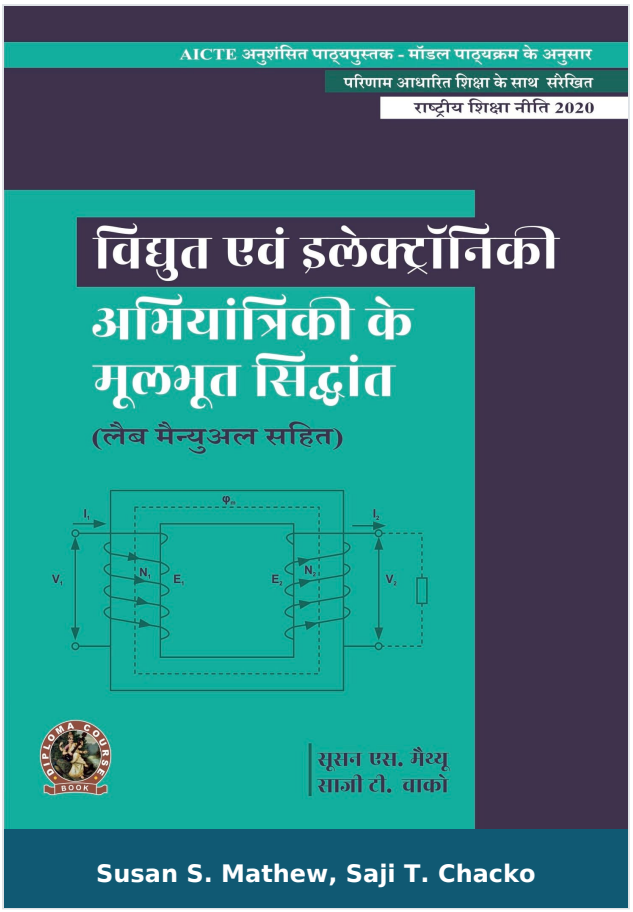
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Dr. Sanjay B. Bodkhe Professor in Electrical Engineering and Registrar, RAMDEOBABA UNIVERSITY

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Fundamentals of Electrical and Electronics Engineering (with Lab Manual)

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Product Description

“Fundamentals of Electrical & Electronics Engineering” is a compulsory paper for the first year Diploma course in Engineering & Technology Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written is easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity.

3. Book provides lots of vital facts, concepts, principles and other interesting information.

4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.

5. Student and teacher centric course materials included in book in balanced manner.

6. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.

7. Objective questions and subjective questions are given for practices of students at the end of each unit.

8. Solved and unsolved problems including numerical examples are solved with systematic steps.

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Author

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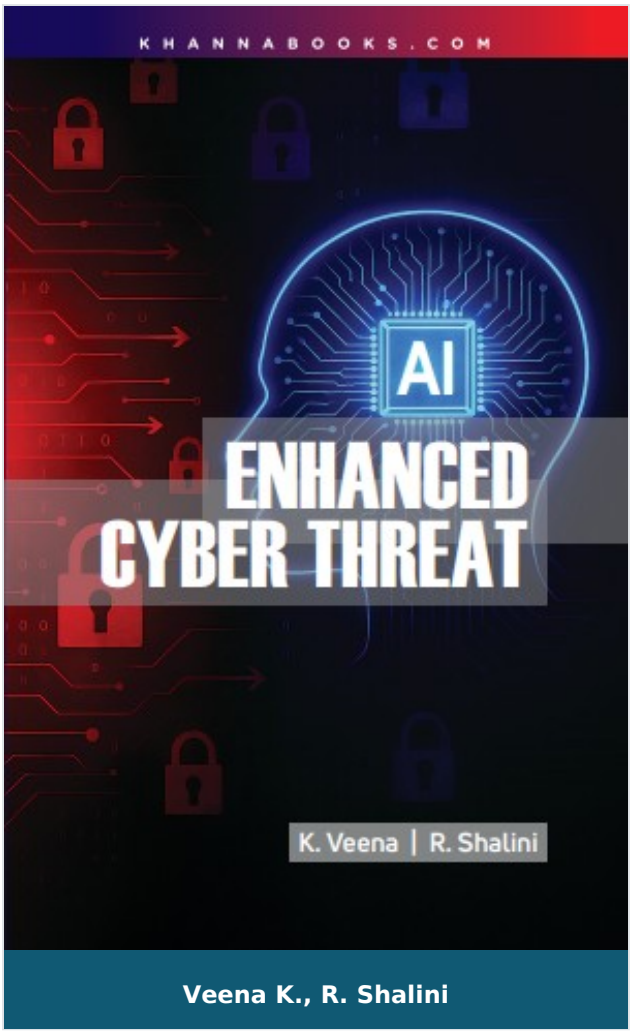
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Veena K., R. Shalini

AI Enhanced Cyber Threat

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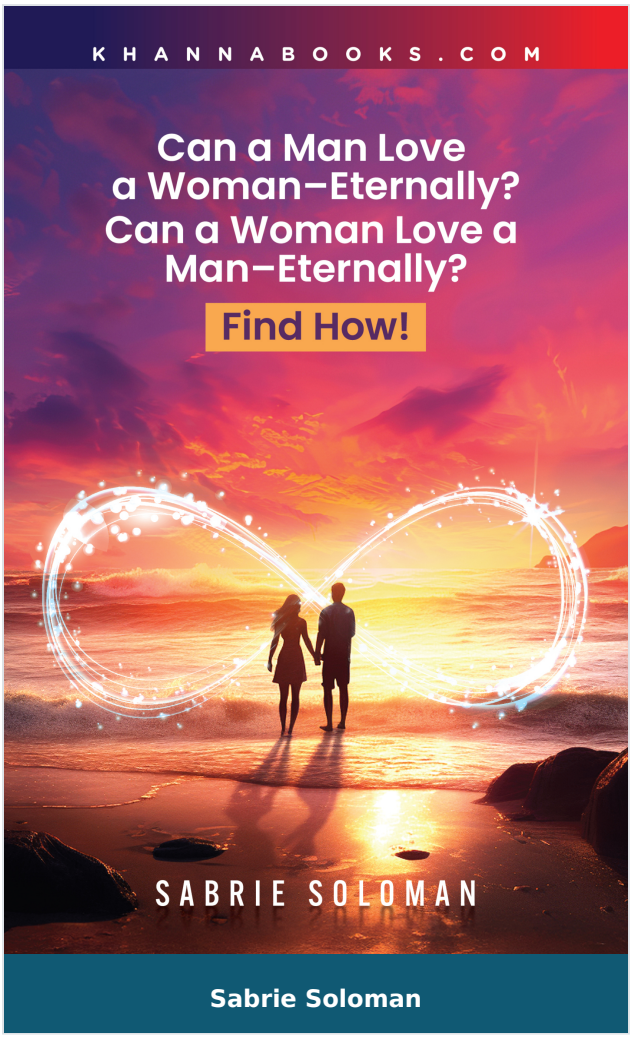
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Dr. R. Shalini Associate Professor, Dept of CSE, Sathyabama Institute Of Science and technology Dr. K. Veena Associate professor, Dept of CSE, Sathyabama Institute Of science and technology

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Can A Man Love a Woman - Eternally? Can a Woman Love a Man - Eternally? Find How

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Product Description

Can a man love a woman – Eternally? Can a women love a men –Eternally? Find How!

This thoughtful book explores the timeless essence of romantic love between man and women through scriptural, moral, and emotional lenses. It highlights the roles of sacrificial love, mutual respect, and personal growth in relationships. Drawing from ancient wisdom and modern insights, it guides couples to nurture enduring, spiritually rooted bonds. This book encourages understanding, commitment, and transformation: making it meaningful companion for anyone seeking a deeper, lasting connection in today’s evolving world.

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- How Should a Man Love a Woman – Eternally?
- Appendix

Author

Sabrie Soloman

Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensoR x, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design

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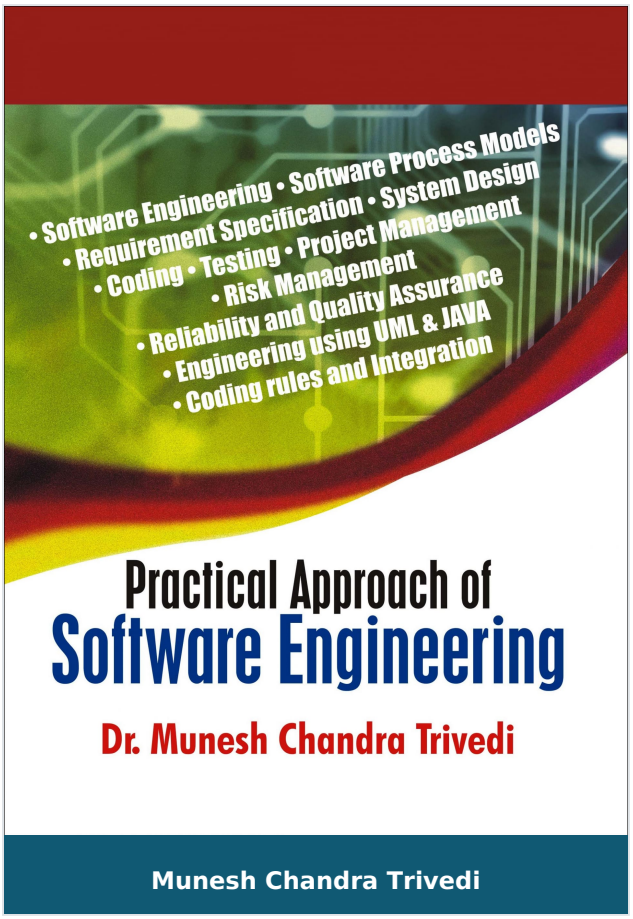
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for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition), Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation, Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design Conference, New York, USA

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Practical Approach of Software Engineering

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Product Description

There are many books available in the market on the proposed topic but none of them can be termed as comprehensive, Besides, students face problem in understanding the language of the books, seeing these problems, it struck our mind that we should come up with a book in practical approach of software Engineering, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and Universities. What are the courses/markets for which your book could serve as a reference. Master of computer application, B. Tech (C.S.), B. Tech(I.T.), Bachelor of computer application, B.Sc./M.Sc./ (C.S.), PGDBM/MBA(I.T.)

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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),

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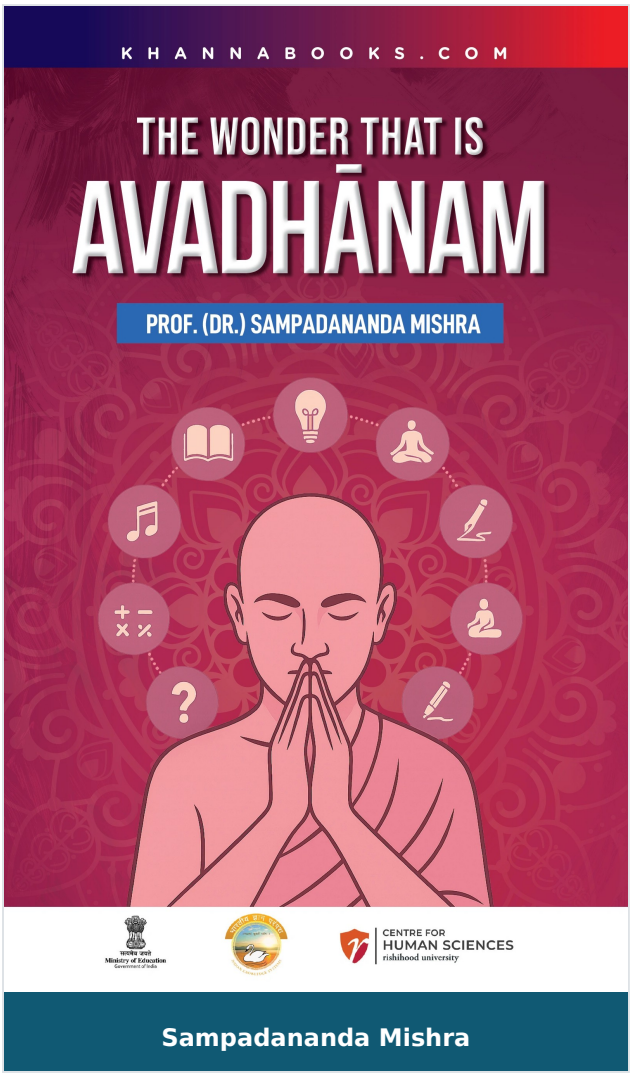
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The Wonder That is Avadhanam

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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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correctly.

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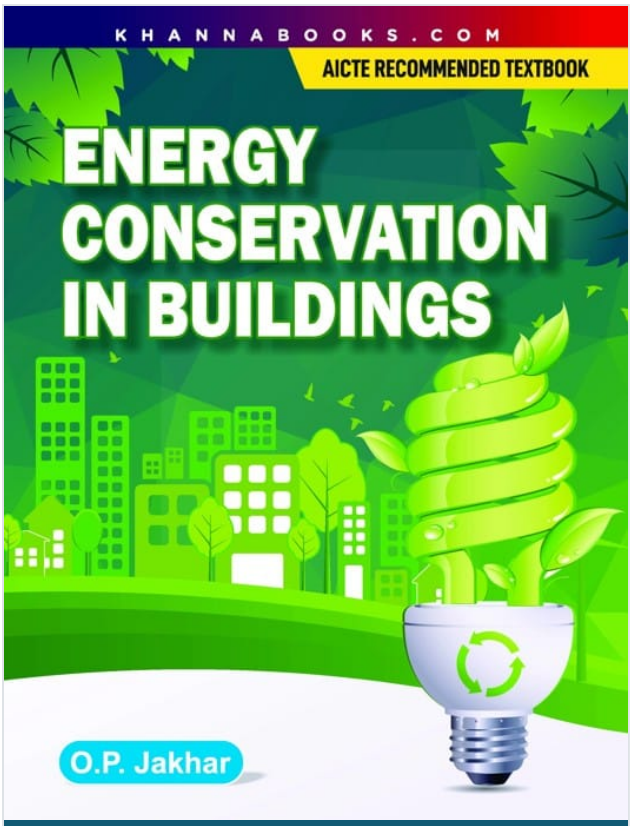
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Dr. Sampadananada Mishra, a distinguished scholar in Sanskrit and indian Knowledge Systems (IKS), has dedicatedhis life to the study, preservation, and propagation of india's richlinguistic and philosophical heritage. He holds a BA and MA in Sanskrit 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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O.P. Jakhar

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Product Description

This book has the basic motive to guide the postgraduate and research students working in the field of energy conservation. This is to cater the strong need felt by the students pursuing the course on energy Conservation in Buildings during their M. Tech. and PhD studies. I have tried to compress the subject matter from the view point of research students. The different simulation techniques, such as Power DOC-2, BSIM 2000, e-Quest, which are extensively used in the energy conservation in buildings, have been added for quick references.

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- Chapter-2: History of Energy Conservation in Building
- Chapter-3: Simulation Techniques of Energy Conservation in Building
- Chapter-4: Passive System of Energy Conservation in Buildings
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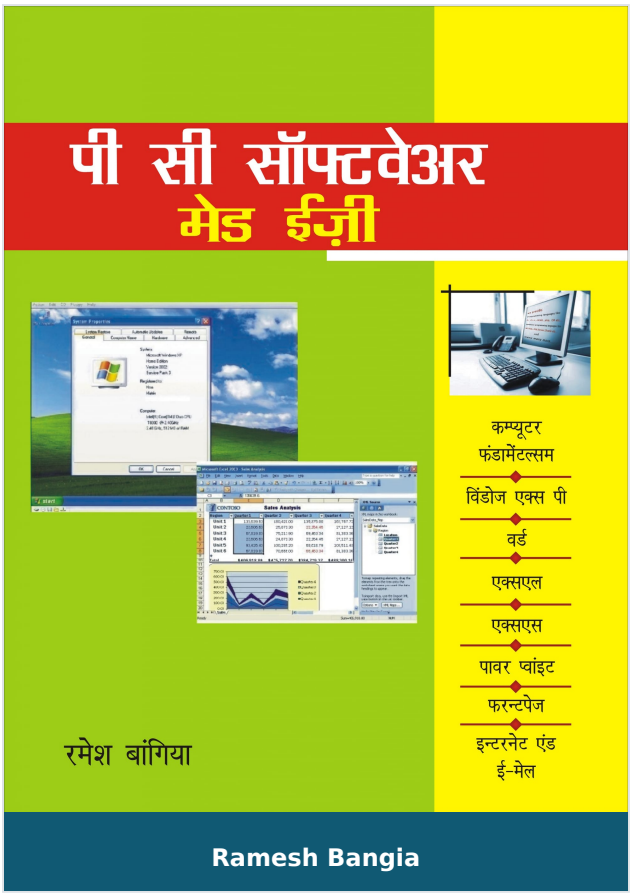
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Learning of a software is both easy and difficult. It depends upon what level you planning to learn. If you are learning only for the working use, then it is very easy. But, when you try to go deep into it, then you realise how difficult it is to master it. This book has been written to keep in mind both the aspects, Beginner's as well as professionals would find something worth reading in this: There are basically 9 chapters, each chapter ends with a revision with what has been told in the section and it follows up with the questions related to it.

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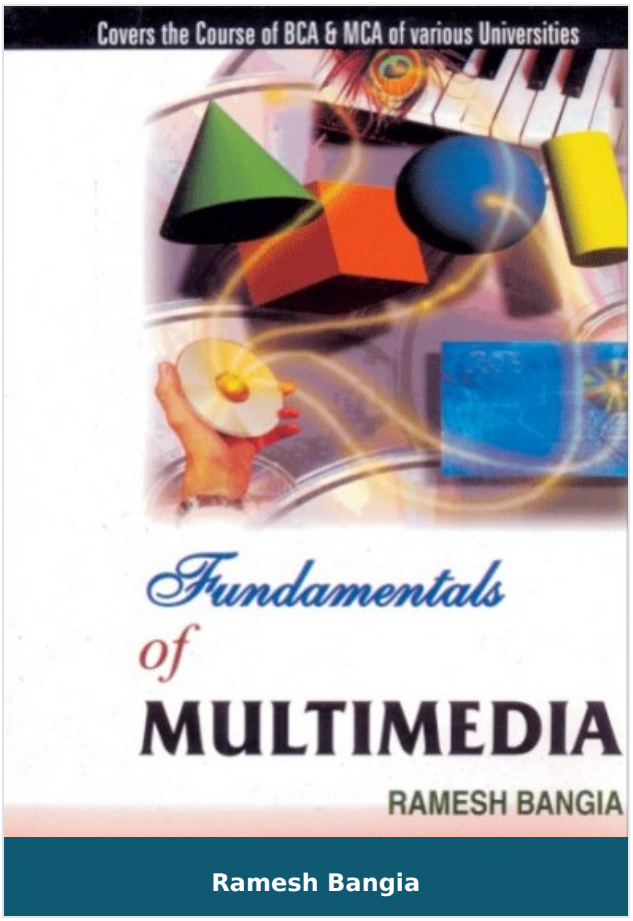
Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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Ramesh Bangia

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The book has been designed to take care of the syllabus of various Universities conducting the courses of BCA and MCA having multimedia as one of the subject. Complete syllabus of Guru Nanak dev University and Rajiv Gandhi Praudyogiki Vishya Vidyalya of M.P. has been wonder this subject is taught in all the technical institutes of India. each chapter is laced with screen shots and equations where ever needed. A revision of the chapter appears at the end followed by different type of questions which the students of the subject would find quite useful.

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- Working with Animation
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Author

Ramesh Bangia

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