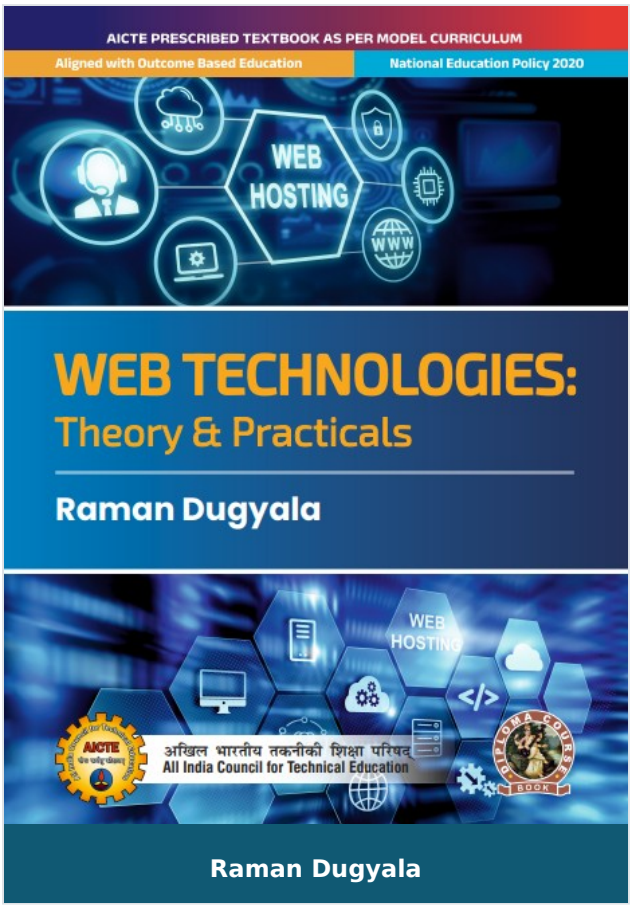


Web Technologies: Theory & Practical

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Product Description

Web Technologies: Theory & Practical

Web Technologies: Theory & Practical’s is a textbook specially designed for Diploma students of Computer Science. The book provides a comprehensive coverage of complete range of topics taught in this course. The text is supported by numerous illustrations, examples, program codes, screenshots Divided into Five chapters, the book first introduces the basic concepts such as protocols, Wed programmers, Web development tools, and Web designing. The second chapter focuses on Web systems architecture, Proxies, Load balancers, Caches and Queues. The third chapters deal with java script and DHTML. Advanced scripting objects were discussed in the fourth Part. Chapter five deals with PHP and related concepts. With its clear presentation and inclusion of numerous real-world examples, codes and QR codes the book will be equality useful for web professionals.

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, 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.
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- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
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Author

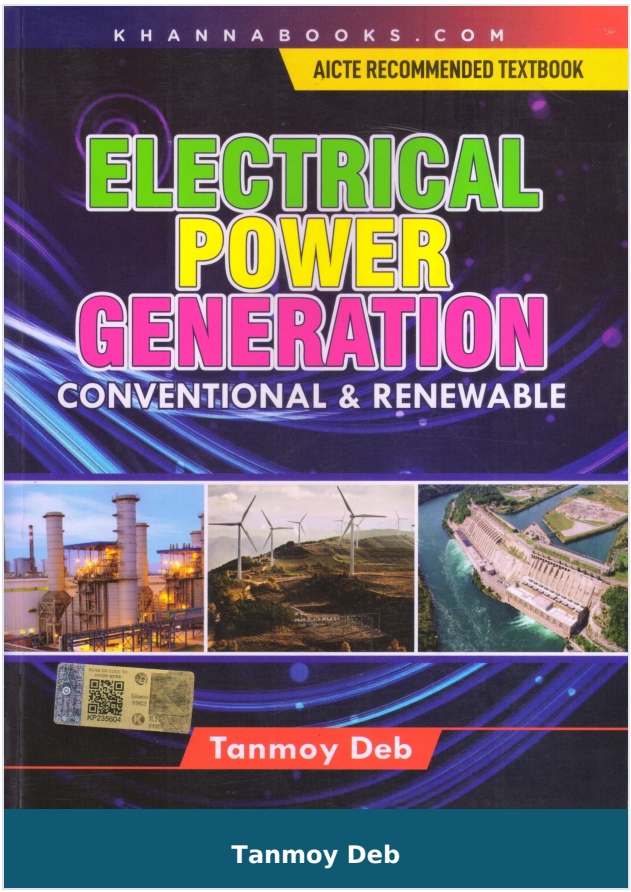
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Electrical Power Generation

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Product Description

Electrical Power Generation - Conventional and Renewable is comprehensive textbook meant for B. Tech (Electrical Engineering), B. Tech (Electrical and Electronics), M. Tech(Electrical Engineering) and M. Tech(Mechanical Engineering) students. This book is also useful for students preparing for GATE, AMIE, UPSC(Engineering Services) and IIIE Exams. The book covers complete syllabus prescribed by various universities, Institutes and NIT’s etc. It contains large number of solved numerical problems, flowcharts, diagrams for easy comprehension. Various pedagogical features such as learning objectives ,chapter summary, list of formulae, multiple choice questions, numerical questions and short answer type questions are provided for practice and understanding. It covers syllabus for subjects viz. power station practice, renewable energy resources, energy technology and electrical power generation.

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- Ocean Thermal, Tidal and Wave Power Generation
- Thermal Power Generation
- Thermo-Electric, Thermionic and Small Hydro Power Generation
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- Substation
- Annexure-A
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Advanced Robotics Design & Applications

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This book delivers an outline of an introduction to articulated robot mechanisms. Dynamics, and intelligent controls. Applications and exercises are tailored to experience servo-drives implementation. real-time control. Exercises are particularly composed for students to design and fabricate practical working robotic systems in supervised group-setting environments.

* Artificial Intelligence (AI) in Humanoids-for Good not Evil.

* Medical & Surgical Robots.

* Nano Robots (Swarm) in Blood Cells Fighting Cancer.

* Robot in Hazard Environment.

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- Robot Manipulator Design
- Advanced Robotic Applications in Manufacturing
- Actuators and Control Systems
- Robot Mechanism
- Geometry of Motion
- Mathematical Differential Motion
- Robotic Force and Moments
- Applied Forces and Energy
- Humanoid Robots- Factory of the Future

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 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

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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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Mastering C# 4.0 (With Complete C# Language and Examples)

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Product Description

Web Tech solutions Inc. is one of the pioneers of the technology industry. Web Tech solution Inc. is a leading IT development company bringing the latest technologies in a short span of time. Its professional research team aims to deliver the latest information on the best way to analyze, develop, test, debug and tune best development skills including technical coding and theoretical concepts of IT. Its main aim is committed to excellence; excellence in its range and quality of publishing; excellence in dedication to its authors and excellence in the service it provides to the readers. By way of this book, Mastering C# has become faster and easier as all the relevant information and step-by-step approach has been followed in simple plain English. It is designed very systemically and logically. The basic concepts have been taught in-depth with lots of examples and screen shots. A large number of unsolved as well as solved exercises have been included for the benefit of the readers.

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- Strings & Formatting
- Multi thread Programming
- Collections, Enumerators and Iterators

Author

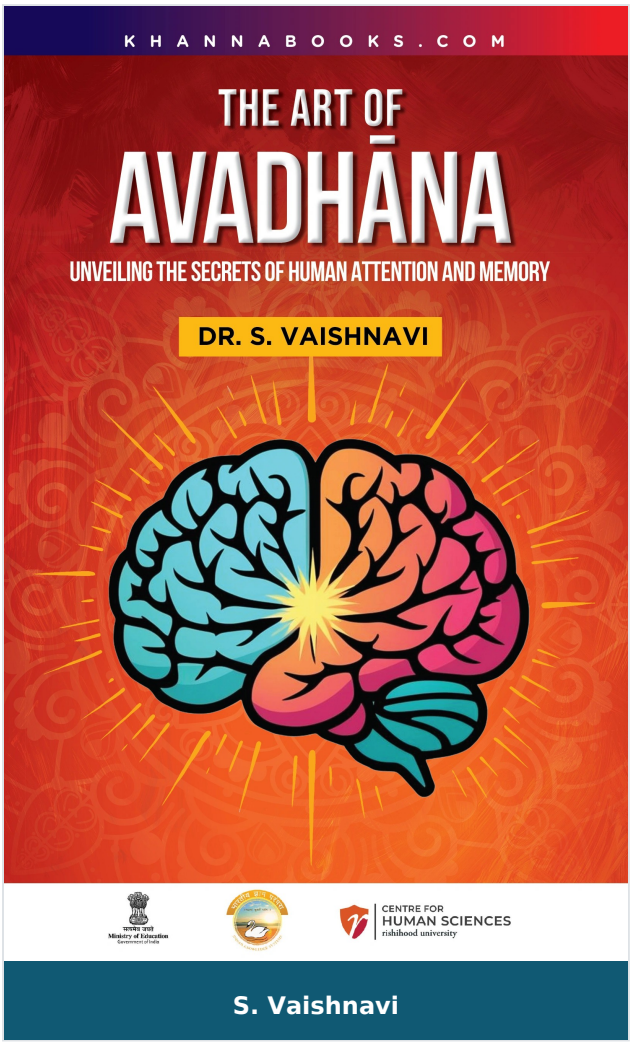
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The Art of Avadhanam (Unveiling the Secrets of Human Attention and Memory)

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Product Description

The human mind, with its vast and intricate capabilities, has been a subject of wonder and inquiry across cultures and epochs. Amidst the profound legacy of Indian intellectual traditions, the ancient art of Avadhana shines as a remarkable testament to the extraordinary cognitive potential of the human mind. Rooted in classical disciplines of Sanskrit and other Indian languages, Avadhana exemplifies the harmonization of memory, multitasking, and creativity, encapsulating the extraordinary synergy between linguistic mastery and mental agility. This book delves into the multifaceted dimensions of Avadhana, exploring its relevance as a cognitive phenomenon and its profound implications for understanding human intelligence. The chapters within aim to bridge the traditional practice of Avadhana with contemporary perspectives on memory, focus, and the neuropsychology of learning. By doing so, I hope to illuminate its enduring significance, not only as a literary and cultural treasure but also as a practical framework for enhancing mental faculties in today's world. I was extensively inspired by the Avadhana art form and its remarkable demonstration of the human mind’s responses and functions. Witnessing this art directly was a transformative experience, deepening my appreciation of its cognitive intricacies and its potential applications. The foundation of this work owes much to the tireless efforts of Prof. Sampadananda Mishra, whose vision and leadership under the Indian Knowledge Systems (IKS) initiative have been instrumental in shaping this project. Prof. Mishra has been at the forefront of reviving and promoting the art of Avadhana, organizing three outcome-oriented workshops and training programs at the National Sanskrit University, Tirupati. These programs have not only provided practical insights into the nuances of Avadhana but have also cultivated a new generation of practitioners and researchers dedicated to this extraordinary tradition. I sincerely thank Prof. Mishra, my mentors, colleagues, family, and the custodians of this ancient tradition, whose insights, guidance, and unwavering encouragement have deeply enriched this work. This book is an invitation to rediscover the boundless possibilities of

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the human mind and the timeless wisdom embedded in India’s cultural heritage. May it inspire a renewed appreciation of Avadhana and spark meaningful conversations across disciplines.

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- Neuroscientific Perspectives
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Author

S. Vaishnavi

Dr. S. Vaishnavi is a leading Sanskrit scholar, researcher, and educator dedicate to integrating traditional wisdom with modern learning. Her expertise spans Traditional pedagogies, psychology, and Cognitive Science, Holding a Ph.D. in Sanskrit from national Sanskrit University, Tirupati, alongside degree in Education, Psychology, and other disciplines, she boasts a strong academic foundation. as an Assistant Professor at national Sanskrit University for five Years, Dr. Vaishnavi mentored research scholars and contributed significantly to academia through publications and lectures. She has presented at numerous national and international conferences and actively participated in educational projects like Digital Chitrapadakosha and Swayam Prabha courses. Known for her oratory skills and leadership in education, she bridges the gap between ancient

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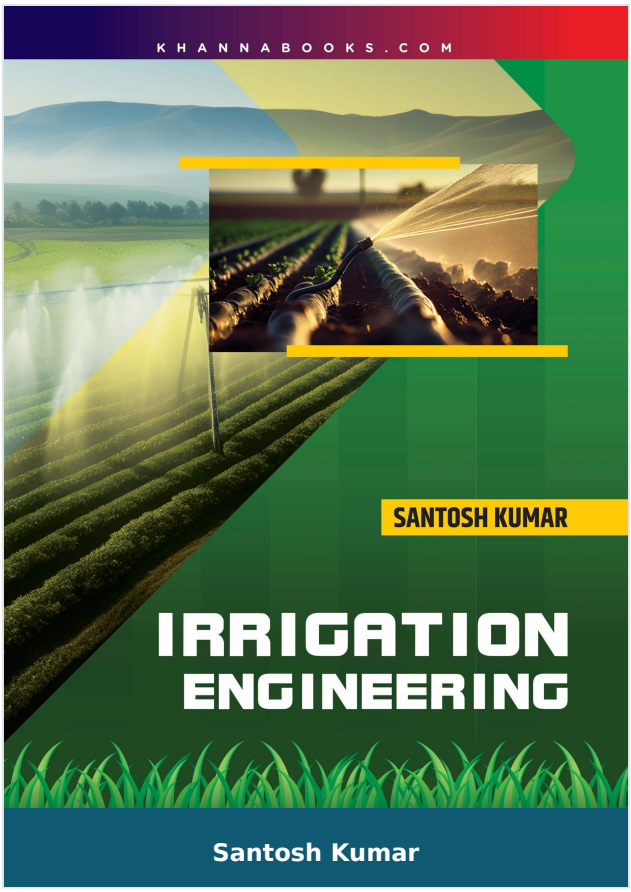
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knowledge and contemporary teaching methodologies, shaping the future of Sanskrit education through innovative curriculum development and a deep commitment to research and pedagogy.

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Irrigation Engineering

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Product Description

IRRIGATION ENGINEERING

With rapidly changing climate, importance of irrigation is being realized more and more. Present book is focused on the Engineering part of irrigation. The Book is written in precise form omitting chapters on which exclusive books are available. The book can be useful mostly to undergraduate student pf the civil writing various Competitive examinations. Any suggestion for enhancing the quality of the book is most welcome.

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- Dams.
- Design of Surface and Sub surface Drainage Network for Irrigation Command.
- Canal Outlets or Modules and Irrigation Efficiency.
- Cross Drainage Works.
- Pricing of Irrigation of Water in India.
- Environmental Issues of Irrigation.
- Questions on Irrigation Engineering.
- Appendix

Author

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Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional

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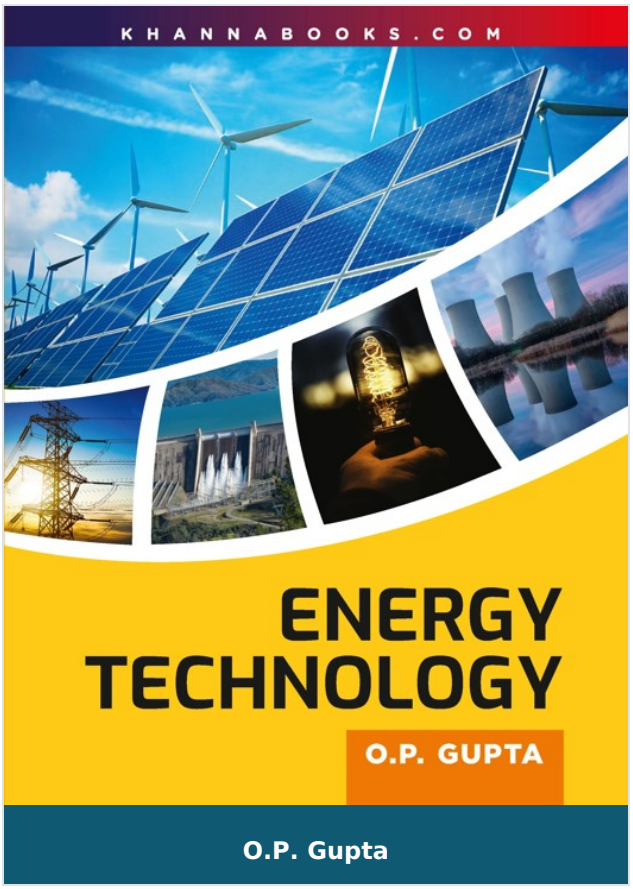
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Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).

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Product Description

Energy Technology is an integral part of the degree, postgraduate & diploma curriculum of various branches of engineering. besides, it is also a compulsory paper for various associate membership examination conducted by professional bodies like institution of engineering (AMIE), Indian Institute of Metals (AMIIM), Indian Institute of Chemical Engineering (AMIICHE), BEE etc. This book has been prepared strictly as per the syllabus of these examinations. Short questions & answer and multiple-choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for the student.

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- Short Question & Answer on Conventional Energy

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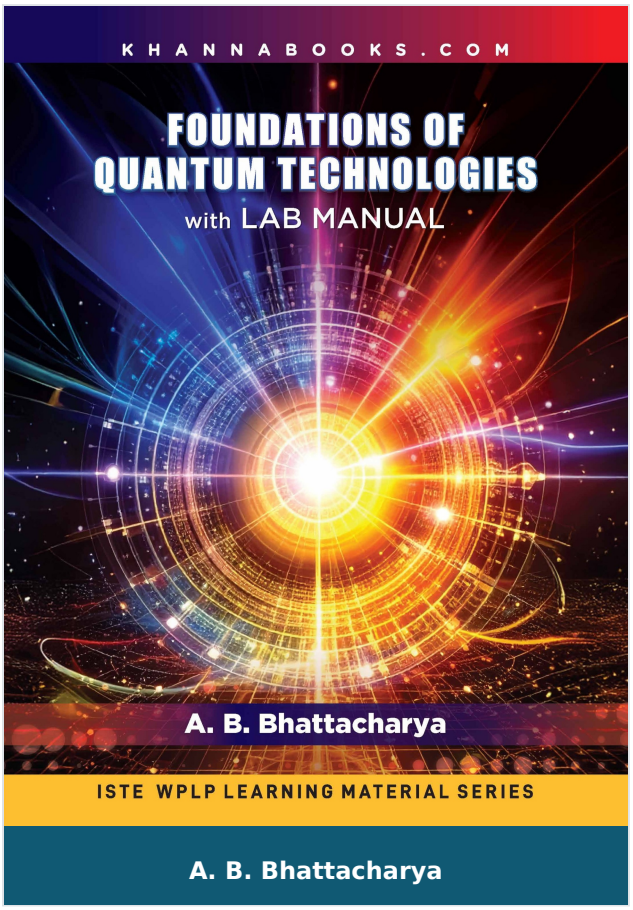
O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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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.

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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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Author

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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

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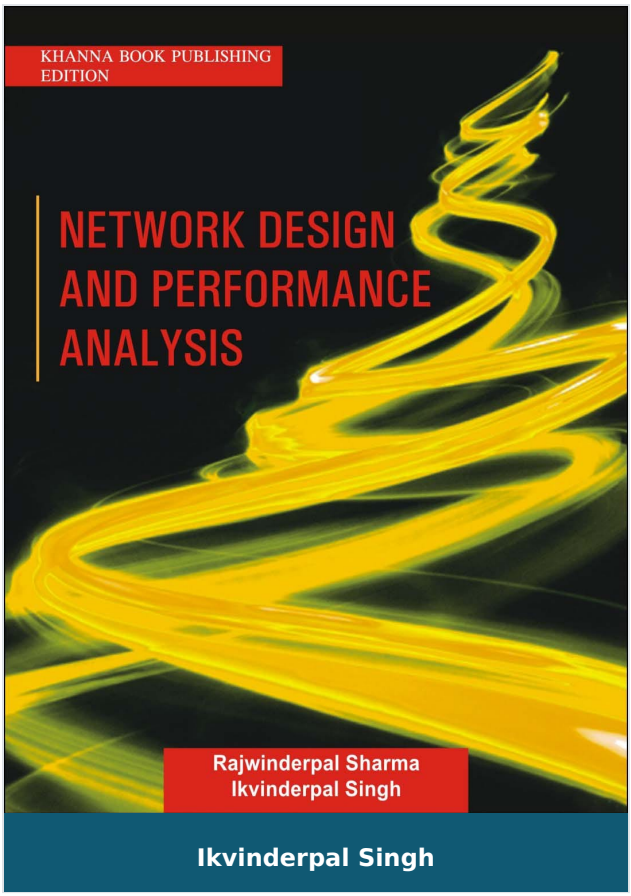
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Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding 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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Network Design and Performance Analysis

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Product Description

Discusses on the introduction to requirements analysis and specifications. Detailed explanation of the Traffic Engineering & capacity planning. Provides a detailed treatment of network performance modeling. Covers the concept of choosing service provider, vendor and service levels. Design and architecture of access network design. Provides an extensive treatment of backbone network design. Covers the concept of security and designing for network. Detailed explanation of documentation and network management. Demonstrates the concept of the network optimization.

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- Traffic Engineering and Capacity Planning
- Network Performance Modeling
- Technology Comparisons
- Choosing Service Providers & Vendors & Service Levels
- Access Network Design
- Backbone Network Design
- Network Security
- Documentation and Network Management
- Network optimization

Author

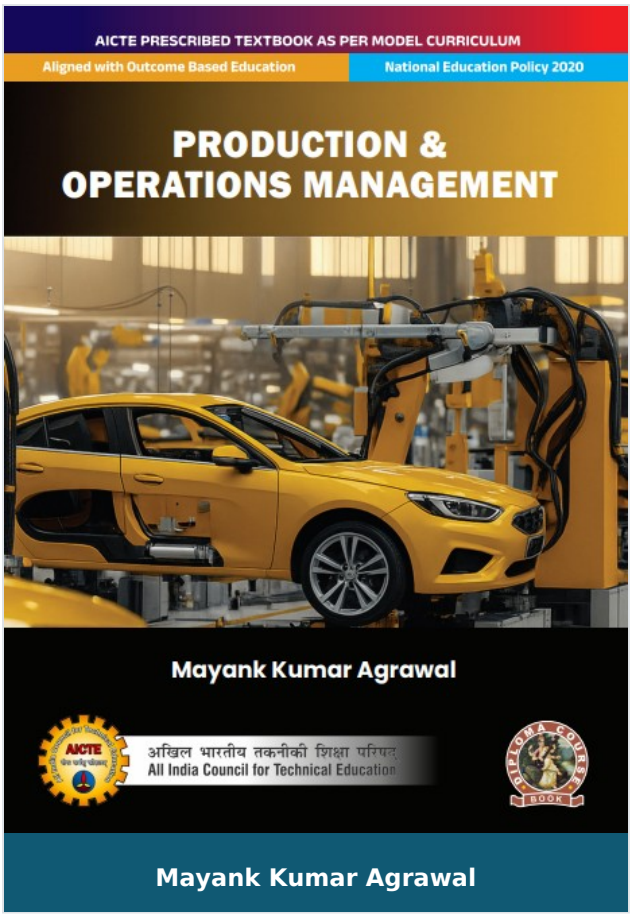
Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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Production & Operations Management

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Product Description

Production & Operations Management

Production & Operations Management is a field of management that focuses on overseeing an optimizing the process of producing goods and services. It involves planning, organizing, and controlling the activities involved in the production of goods and delivery of services. This book gives detailed description about production management and operation management in industry. The book entitles “production & Operations management” developed as per the model curriculum of AICTE for third year students of mechanical and industrial Engineering.

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.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- 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 systematic step. All chapters have been updated to reflect new techniques, case studies and technologies. Expansion of purpose and impact of strategic planning, including environmental and sustainability issues. Allows students to understand the importance of the field at a higher level, including impacts and benefits to society as a whole.

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- Information included on lean production concepts and theory of constraints. Theory of constraint provides an interesting and potentially effective alternative method to think about several of the concepts in the book, and can help students compare and contrast theory of constraints with non-theory of constraint approaches.
- Book provides lots of recent information, interesting facts, QR code for E-resources etc.

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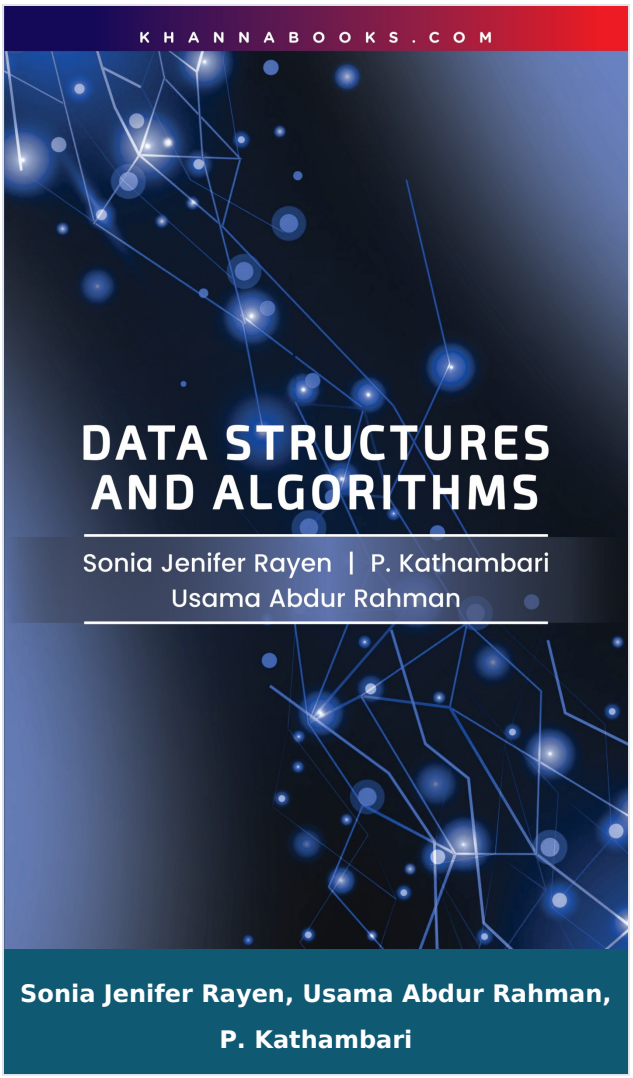
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Data Structures and Algorithm

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Product Description

In the rapidly evolving landscape of computer science and technology, a foundational mastery of data structures and algorithms is paramount for efficient problem-solving and system design. This essential textbook is specifically designed to offer Computer Science, Information Technology, and allied students, along with educators and aspiring programmers, a broad and easy-to-understand exposition of these key principles.

The book's core purpose is to build a strong, clear, and practical understanding of fundamental concepts, integrating theoretical principles with applied implementation so readers can not only grasp the inherent logic but also implement solutions in real-world computing environments. The text systematically covers traditional structures like Arrays, Linked Lists, Stacks, and Queues, alongside complex non-linear structures such as Trees and Graphs. It then advances to essential algorithm design techniques, including Divide and Conquer, Greedy Algorithms, and Dynamic Programming, and comprehensively covers Searching and Sorting methods.

A key highlight is the dedicated focus on Algorithm Analysis, thoroughly explaining concepts like Time and Space Complexity and Big O notation to ensure readers can develop efficient, optimized solutions. Maintaining an academic yet friendly tone, the book ensures clarity by breaking down complex concepts, supplemented with numerous diagrams, real-life examples, and code snippets, primarily using Python for readability. This text is an indispensable guide for establishing the analytical and coding skills necessary for academic and professional success.

Salient Features:

• Foundational DS: Systematically covers primitive and non-primitive structures like arrays, linked lists, stacks, queues, trees, and graphs, forming the core of computing.

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• Performance Analysis: Explains the crucial concepts of Big O notation, time, and space complexity analysis, enabling the design of optimized and efficient coding solutions.

• Advanced Techniques: Details advanced algorithm design paradigms, including Divide and Conquer, the Greedy approach, Dynamic Programming, and Backtracking for complex problem-solving.

• Practical Coding: Adopts a hands-on approach with numerous code snippets, examples, and diagrams, utilizing Python for clear, readable implementation of concepts.

• Search & Sort Mastery: Provides clear, step-by-step coverage of fundamental operations like linear search, binary search, and various efficient sorting methods (Quick, Merge, Heap).

• Applied Solutions: Explores real-world applications of data structures, such as polynomial manipulation via lists and shortest path problems using Dijkstra's algorithm.

• Conceptual Clarity: Establishes a strong basis by thoroughly defining and differentiating between data, information, and Abstract Data Types (ADT) before implementation.

• Student Focused: Includes chapter-end exercises and problems to reinforce learning, making it an ideal, syllabus-aligned guide for academic and professional preparation.

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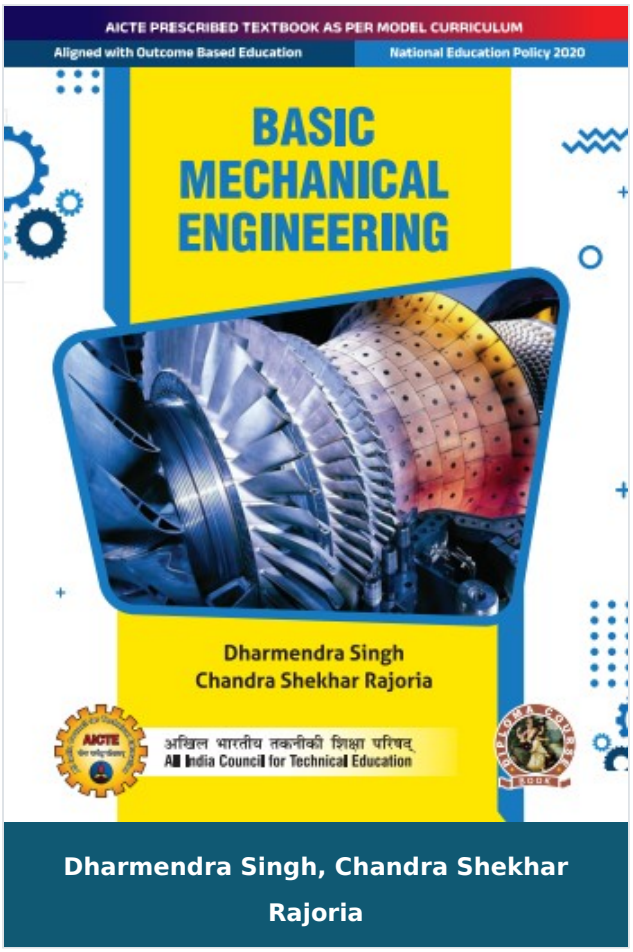
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Basic Mechanical Engineering

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Product Description

Basic Mechanical Engineering

This book familiarizes the students with different domains of Mechanical Engineering. It provides an exposure of basic science to the engineering students, the fundamentals of Mechanical Engineering systems as well as enables them to get and insight of the subject. The book covers the basic thermodynamic principles including heat transfer, thermal power plant systems, steam turbines, condensers, cooking towers, internal combustion engines and refrigeration. It also covers the basics of material science, manufacturing process, machine tools and their mechanisms with their application in engineering problems. The main content of this book is aligned with the model curriculum of AICTE followed by concept of 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, 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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