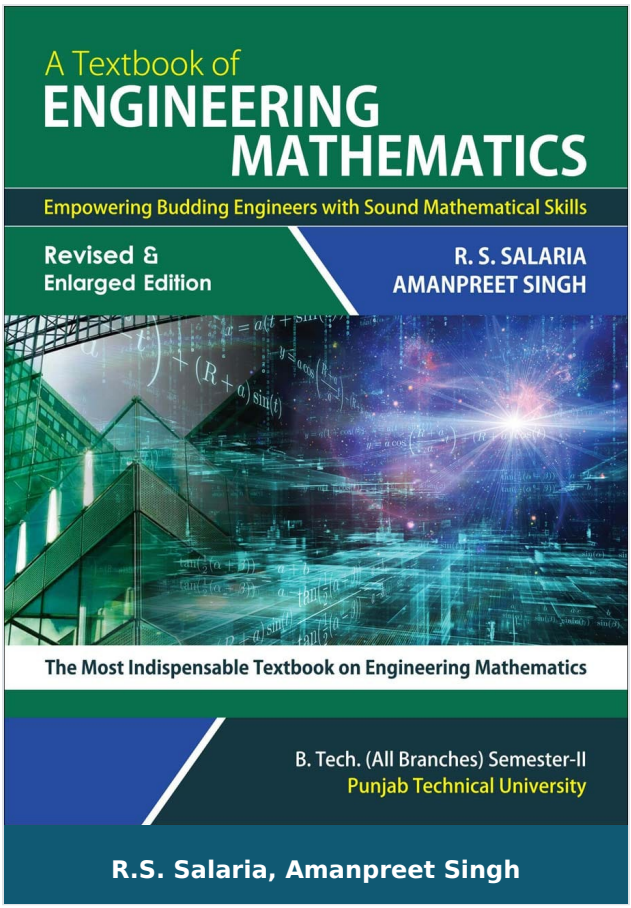

A Textbook of Engineering Mathematics (PTU-II)

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Product Description

The subject of Engineering Mathematics is an integral part of the course curriculum of bachelor of Engineering/Technology (BE/B. Tech) Program of All Indian Universities, and is taught in first and/or second semester(s). The present state of teaching and learning of Mathematics is not that encouraging. A lot has to be done on both the fronts.

The book in your hand is a first step of our commitment to uplift the standard of teaching and learning of Mathematics. We assure you that in our continuous journey in this endeavor and with your whole hearted support, we hope to make significant contribution in the teaching and learning of Mathematics. We hope to see that day when we hear from our students that Mathematics is wonderful subject and you all are relishing it.

This book is designed to serve as a textbook for the students of B. Tech. (All Branches) Semester-II of Punjab Technical University, Jalandhar.

While Writing, due care is taken to present the subject matter in a simple and illustrative manner so that a reader can grasp it with quite ease and can built basis and conceptual knowledge in the subject.

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- Useful Formulae, Theorems and Results
- Ordinary Differential Equations of First Order
- Liner Ordinary Differential Equations of Second and Higher Order
- Applications of Differential Equations
- Linear Algebra
- Infinite Series
- Complex Numbers

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. </p

Amanpreet Singh

Amanpreet Singh Amanpreet Singh SGTB Khalsha College, Anandpur Sahib, Formerly with Rayat-Bahra Institute of Engineering& Nano Technology, Hoshiarpur.

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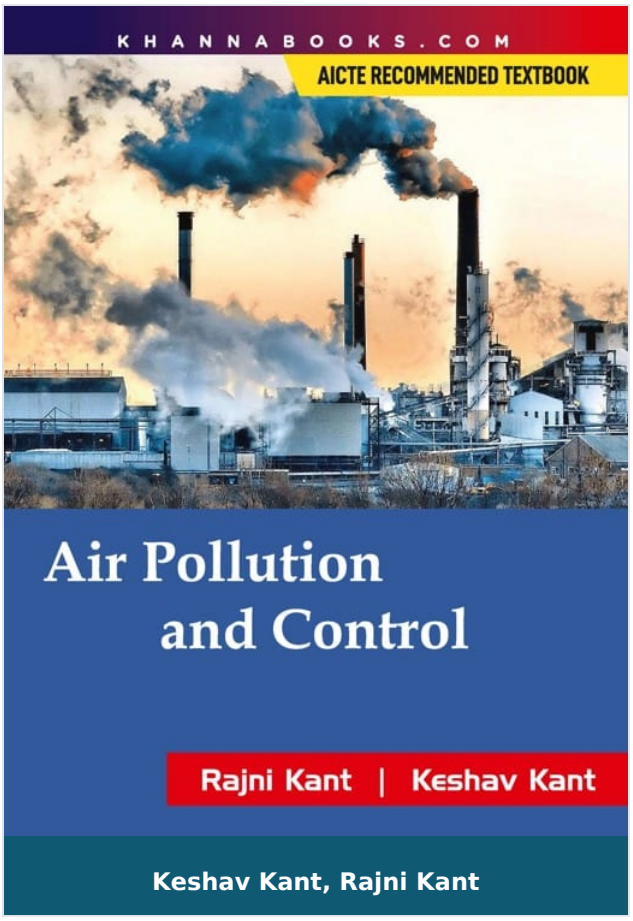

Air Pollution and Control

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Product Description

This book provides a fully comprehensive, rigorous and refreshing treatment of ‘Air Pollution and Control’ covering present day technology and developments. It covers various new topics like bioaerosols or aeroallergens and hazardous air pollutants including diesel exhaust and dioxins.

The book is intended to meet the requirements of (a) Undergraduate and postgraduate students of particularly Environmental and Mechanical Engineering and also other branches of Engineering, (b) Technologists, designers, operation and maintenance engineers of industries, electrical power plants, heat and power utilities, (c) Aspirants for competitive examinations of IAS, IES, IFS, PCS, and aspirants for various state and private technical services, etc. and (d)General readers interested in the field for better understanding and knowledge.

The book is divided into 20 chapters and presents enormous information covering all aspects of Air Pollution in various sectors relevant to Indian conditions. Each of the following chapters is followed by questions at the end based upon the text.

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- Chapter-5: Control of Oxides of Nitrogen in Combustion of Fossil fuels in Power Generation and Industries
- Chapter-6: Control of Emission of Oxides of sulphur by Absorption Systems Internal to Boilers
- Chapter-7: Control of Emission of Oxides of sulphur(SOx) for Flue Gases of Boilers
- Chapter-8: Air Pollution from Industries and Their Control
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- Chapter-19: Environmental Impact Assessment for Projects
- Chapter-20: Miscellaneous Topics

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Author

Keshav Kant

Dr. Keshav Kant is a former Professor of Mechanical Engineering, I.I.T. Kanpur, who after superannuation from I.I.T. Kanpur in June 2005, served as professor and Head of Mechanical Engineering Department and later as the Director in a number of Private Engineering Colleges/ Institutes. He has three Monographs, five technical reports, 90 publications to his credit in National and International Journals and Proc. of National and International Conference.

Rajni Kant

Er. Rajni Kant, an Engineering Graduate from BHU in 1954, recieved an extensive training in the works of M/S Hitachi Ltd. Japan and also at large capacity power stations and projects of Georgia Power Company (USA). He has more than 50 years of experience to his credit in the aforesaid fields and has authored about 40 papers in various fields including Power Plant and Environmental Engineering which were published in National and International Journals and Proceeding of National and International Conferences.

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Fundamentals of Electricals & 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:

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

. 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.

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

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

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

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

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

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

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- Electric and Magnetic Circuits.
- AC Circuits.
- Transformer and Machines.
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Author

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A. Deepa, M.P. Vaishnnave, S. Bangaru Kamatchi

Artificial Intelligence

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Product Description

Artificial Intelligence serves as a comprehensive and structured guide to the fundamental principles, techniques, and transformative real-world applications of AI. Recognizing AI as one of the 21st century's most essential technologies, this book is an invaluable resource for mastering the concepts required to understand and develop intelligent systems. It is meticulously designed to guide readers from foundational concepts, such as the history of AI and the nature of intelligent agents, through increasingly sophisticated methodologies.

The core themes delve into problem-solving paradigms, including uninformed and informed search strategies like A* search, Hill Climbing, and Genetic Algorithms, alongside the critical aspects of optimal decision-making in competitive environments using techniques like Alpha-Beta Pruning. A significant portion is dedicated to Knowledge Representation and Reasoning, exploring formal logic (Propositional and First-Order), Ontological Engineering, and the mechanisms of logical inference like Forward and Backward Chaining. Furthermore, the text addresses acting logically in uncertain, real-world settings by utilizing Bayesian networks and decision theory to ensure rational planning.

By integrating theoretical foundations with practical implementation examples, this book is an essential resource for students, educators, researchers, and professionals seeking to bridge the gap between academic knowledge and the creation of intelligent systems capable of solving complex, real-world challenges.

Salient Features

• Search & Problem Solving: Details a full spectrum of search algorithms, including uninformed (BFS, DFS) and advanced heuristic strategies like A* search, Hill Climbing, and Simulated Annealing.

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• Game Theory Insights: Covers optimal decision-making strategies in adversarial environments, featuring comprehensive coverage of Minimax search and efficiency enhancement via Alpha-Beta Pruning.

• Logical Reasoning: Presents a deep dive into Knowledge Representation using First-Order Logic, Situation Calculus, and practical inference mechanisms like Forward and Backward Chaining.

• Uncertainty Handling: Explains Probabilistic Reasoning and Decision-Making in non-deterministic environments, focusing on the application of Bayes's rules and the semantics of Belief Networks.

• Planning Methodologies: Explores agent planning techniques from state-space search to Partial Order Planning (POP), offering methods for both theoretical plan representation and real-world action execution.

• Practical Learning:Promotes a holistic learning experience by blending theoretical depth with practical implementation through problem-solving exercises and complex real-world examples in each unit.

• AI Applications: Dedicates an entire unit to transformative applications like Natural Language Processing (NLP), Machine Translation, Information Retrieval, and core Robotics concepts.

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- Informed Search and Game Playing
- Knowledge and Reasoning
- Acting Logically
- AI Applications

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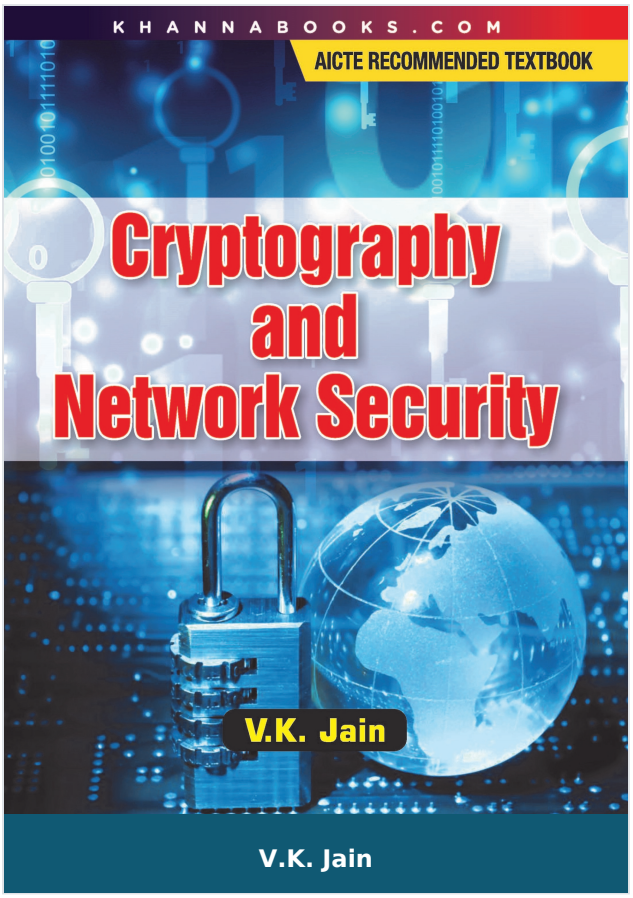

Cryptography and Network Security

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Product Description

This book has been written keeping in mind syllabi of all Indian universities and optimized the contents of the book accordingly. These students are the book's primary audience. Cryptographic concepts are explained using diagrams to illustrate component relationships and data flows. At every step aim is to examine the relationship between the security measures and the vulnerabilities they address. This will guide readers in safely applying cryptographic techniques. This book is also intended for people who know very little about cryptography but need to make technical decisions about cryptographic security. many people face this situation when they need to transmit business data safely over the Internet. This often includes people responsible for the data, like business analysts and managers. as well as those who must install and maintain the protections, like information systems administrators and managers. This book requires no prior knowledge of cryptography or related mathematics. Descriptions of low-level crypto mechanisms focus on presenting the concepts instead of the details. This book is intended as a reference book for professional cryptographers, presenting the techniques and algorithms of greatest interest of the current practitioner, along with the supporting motivation and background material. It also provides a comprehensive source from which to learn cryptography, serving both students and instructors. In addition, the rigorous treatment, breadth, and extensive bibliographic material should make it an important reference for research professionals. While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

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- Web Security
- System Security
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Author

V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This

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was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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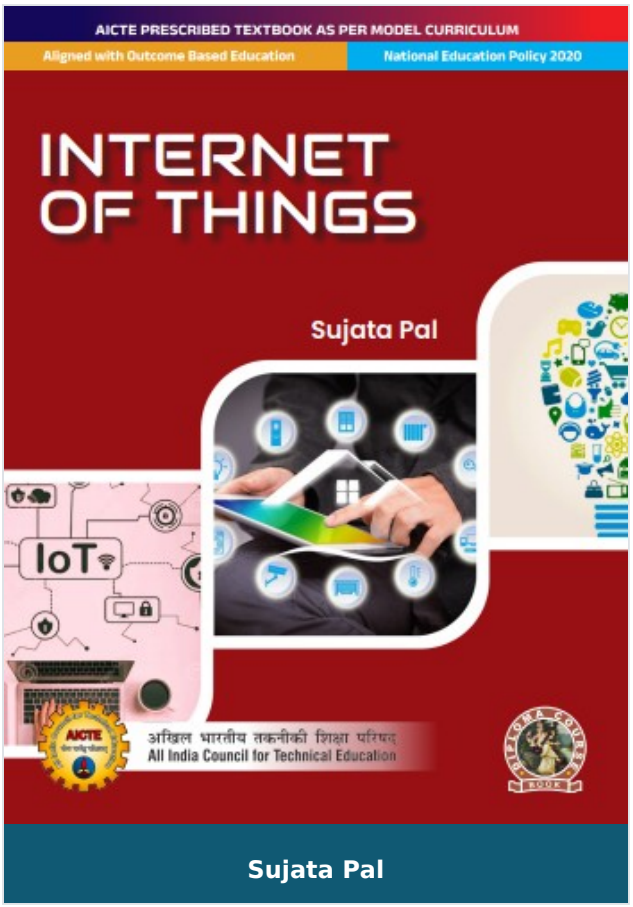

Internet of Things

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Internet of Things

This book offers a quick yet thorough introduction to the Internet of Things (IoT), covering its ideas, technologies, and applications. It covers IoT protocols, and device integration, with an emphasis on hands-on learning and real-world applications. Designed for students, educators, and professionals, it provides a clear path to learning and inventing in ever-changing IoT ecosystem.

Salient Features:

- Explain the conceptual basis of the internet of Things, including its evolution, terminology, and basic frameworks.
- Sensors, actuators, communication protocols, and architecture are among the essential building pieces of the Internet of Things.
- A detailed description of popular IoT communication protocols such as MQTT, CoAP, LoRaWAN, and ZigBee.
- Covers architecture frameworks like one M2M and the IoT world forum to ensure smooth integration.
- Examples of Internet of Things application include smart cities, healthcare, agriculture, and industrial automation.
- Real-world use cases range from smart lighting systems to predictive maintenance in industries.
- Investigates ethical and regulatory considerations for constructing IoT systems.
- Structured to achieve specific program Outcomes (POs) and Course Outcomes (COs).
- Unit-specific learning goals are connected with Blooms Taxonomy to promote skill development.

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Author

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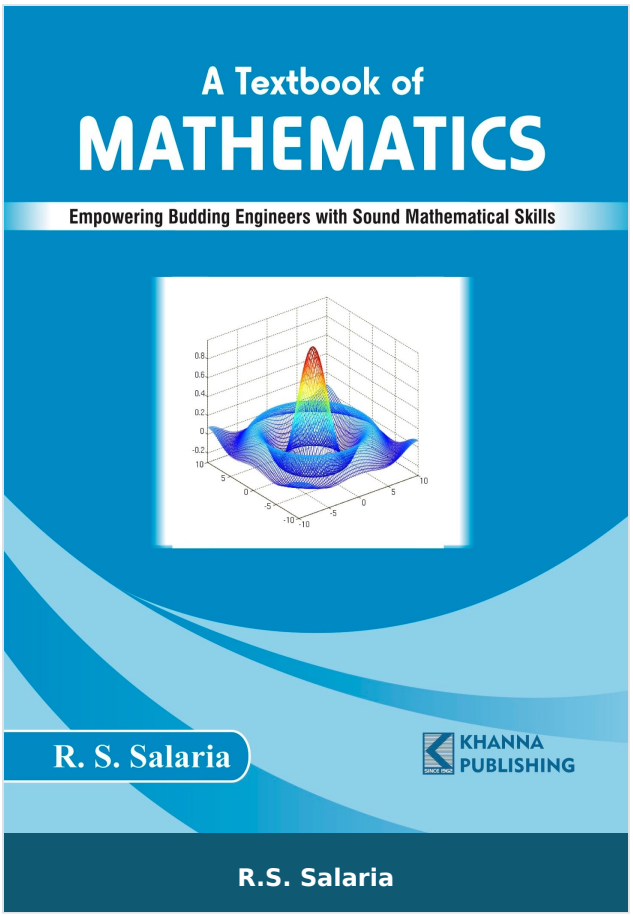

A Textbook of Mathematics

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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. </p

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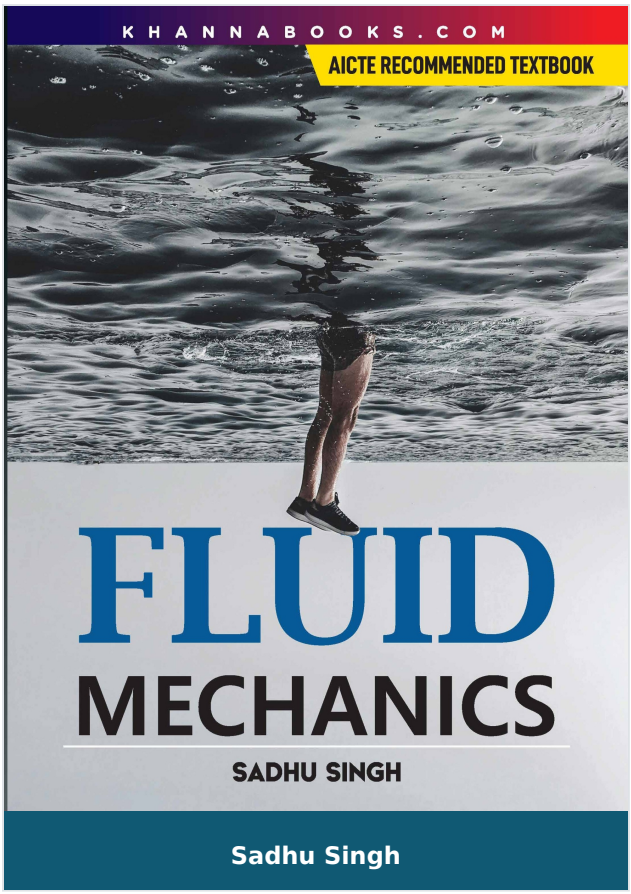

Fluid Mechanics | AICTE Recommended Textbook

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Product Description

This book is a textbook for the B.E./B. Tech. students of All Indian Universities and Institutions. The subject matter has been explained in the simplest possible way for easy assimilation by the students. This has been reinforced by a large number of solved examples. A large number of solved examples, short answer type questions chapter wise. Unsolved end-of chapter exercises. Multi-choice questions from ESE/CSE/GATE.

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Author

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Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and

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19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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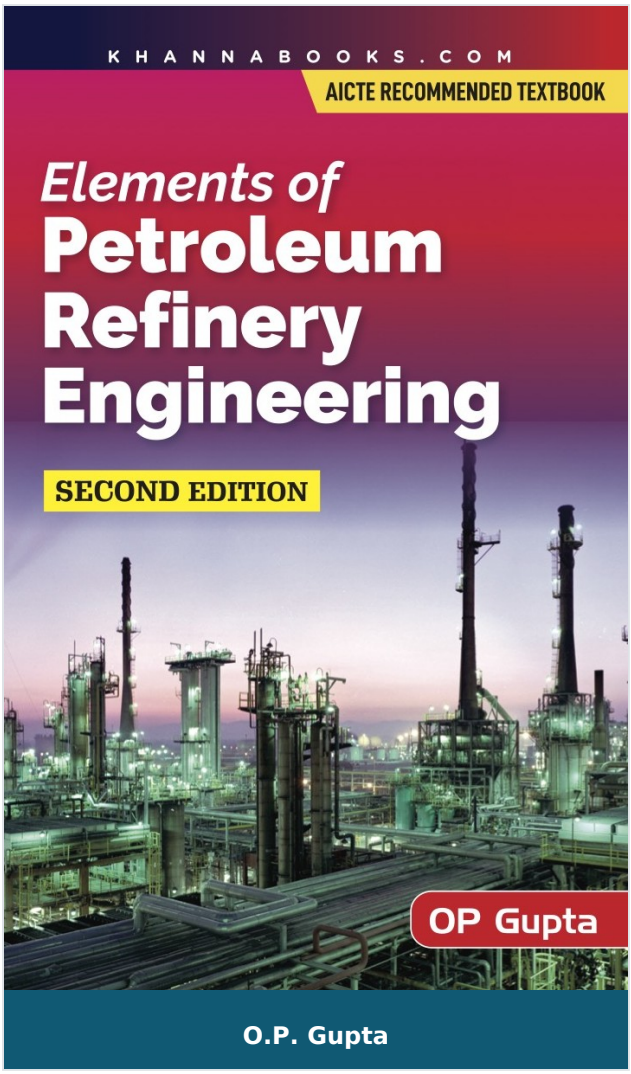

Elements of Petroleum Refinery Engineering

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Product Description

This book is prepared in a simple, lucid &easy understandable language with special emphasis on crude oil refining technologies and scenario in Indian context. This book is meant for the students, teachers, practicing engineer, consultants and policy makers on petroleum refining. Extensive use of Internet resources has been made in gathering the relevant information and the subject matter has been presented in a simple lucid manner for easy understanding of the subject.

This book is targeted to benefit the following:

1. Diploma in engineering students.

2. Degree in engineering students (B. Tech (Chemical Engineering,) B. Tech (Petroleum Engineering, B. Tech (Petrochemical Engineering), B. Tech (Aeronautical Engineering), AMIE, AMIICHE, Students etc.

3. Tech students of various disciplines pursuing courses on petroleum refining.

4. Faculty members/ Teaching staff of Engineering colleges/IIT’s/NIT’s etc.

5. Practicing petroleum engineers/consultants/refiners in various private sector/ public sector undertakings, state/ central government departments, NGO’s etc.

6. Students of foreign universities of developing countries pursuing diploma/ degree/ postgraduate courses in various engineering disciplines having a paper in petroleum refinery engineering.

7. The scope and coverage of the subject matter presented can be gauged from glancing the contents portion of the book to judge its suitability and relevance for a particular target group.

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- Processing of Crude Oil-Refinery Operation & Products
- Thermal and Catalytic Cracking
- Thermal and Catalytic Reforming
- Polymerisation Alkylation and Isomerisation Processes
- Purification of Petroleum Products
- Properties of Petroleum Products
- Requisites of Good Quality Petroleum Products
- Storage and Handling of Petroleum Product
- General Appendix
- Objective Type Q&A in Petroleum Refinery
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Author

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

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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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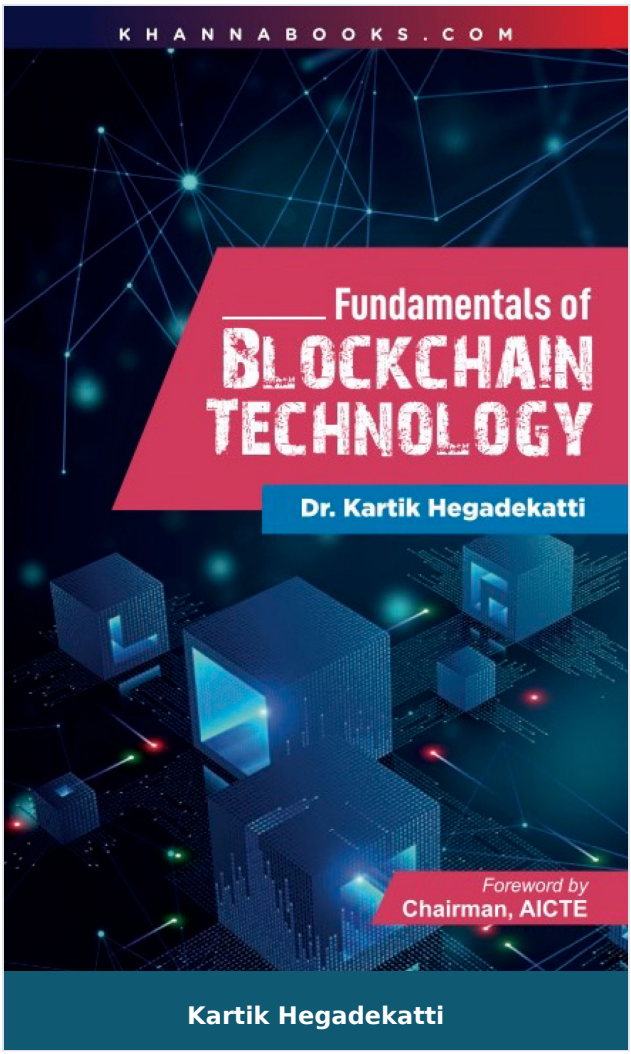

Fundamentals of Blockchain Technology

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Product Description

'BLOCKCHAIN TECHNOLOGY' heralds a new social potential and is a disruptive innovation. Discovered as a basis for the cryptocurrency record keeping system, Blockchains are now used as reliable data storage systems universally.

Blockchain is a amper-proof, distributed, and decentralized system that can validate and record digital transactions. It is transparent, safe and protects the data integrity.

This fantastic technology is used in multiple fields like energy, education, healthcare, finance, voting, land records, intellectual property rights and lot more.

This book is about the Fundamentals of Blockchain technology, written by Dr. Kartik Hegadekatti, a senior Civil Servant in Government of India. He has worked extensively on Blockchains and is an authority on it. He has published more than 30 papers internationally and written various books on Blockchains and fintech.

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- The Ethereum Blockchain
- Blockchain Use Cases
- Further Reading
- Question Bank.
- Answer Key
- Glossary

Author

Kartik Hegadekatti

Anshul Kaushik is a consultant with over 15 years experience on network security domain. He has worked on various domains in information technology industry throughout his career. An alumni of BITS Pilani he is actively involved in new innovations and research programs. Currently he is working on the power sector's Smart platform. He is also a certified instructor from Indira Gandhi National Open University and teaches computer security weekends for the university.

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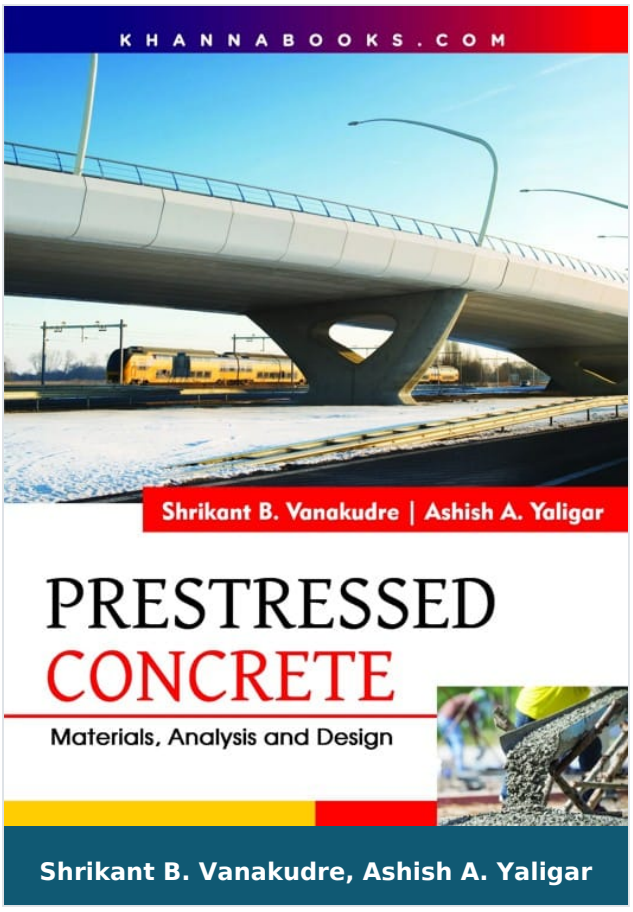

Prestressed Concrete

Author :	Shrikant B. Vanakudre, 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

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- End Blocks
- Analysis and Design of PSC Continuous Beams
- Analysis and Design of Composite Sections
- Design of PSC One Way, Two Way & Flat Slabs and Grid Floors
- Compression Members and Piles
- Tension Members, Pipes and Tanks
- Poles, Pavements & Sleepers
- Design of Pre-stressed Concrete Bridges
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Author

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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 Engineeering, Kalaburagi, Karnataka. He has 4 years of research experience and

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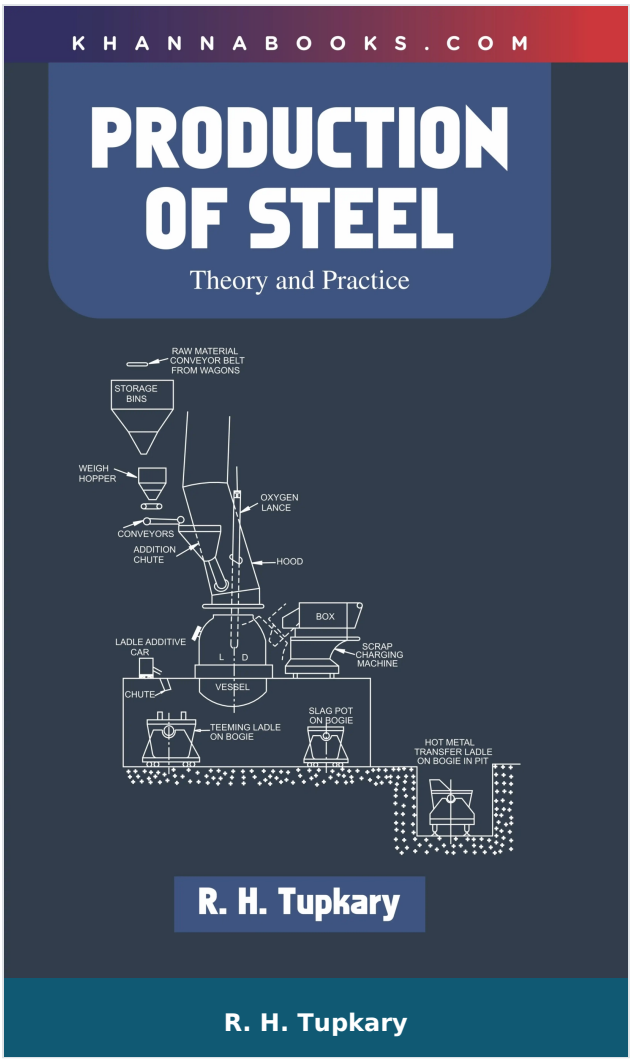
published 3 research papers in journals & 3 research papers in International Conferences.His areas of Interest are Concrete Technology, Analysis and Design of Structures etc.

Ashish A. Yaligar

Ashish A. Yaligar Ashish A.Yaligar is presently pursuing Ph.D (Full Time) in Department of Civil Engineering under the guidance of Dr.



Production of steel (Theory and Practice)

Author :	R. H. Tupkary
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Product Description

Production of steel (Theory and Practice) "A good slag maker is a good steel producer" "In engineering and technology what can not be measured can not be controlled to improve the quality".

After getting proper training at the university of Melbourne in the field of iron and steel making, in the period 1962-65, and after working as faculty member at Banaras Hindu university , first as lecturer and then as reader, Dr. RH Tupkary moved to visvesvaraya National institute of technology, Nagpur as professor, in 1970. He wrote the book titled “introduction to modern steelmaking” when he was confined in Nagpur central jail during the emergency of 1975-1977. It was the first ever book on steelmaking written in independent India. It was extremely well appreciated then and since then till to date for over 44years now. It was designed to cater to the needs of Indian students of metallurgical engineering and practicing steel makers, in those days. But it was very well received all over the world. The title and therefore the contents were so chosen that it was the introduction to the subject in those days, when steel was made in India more as an art rather than based much on the science and technology. It was because the steelmaking technology was still in its infancy in India at that time. The production was also not much. The steelmakers then worked in steel industry more as operators than scientists.

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- BOF Process- Design and Practice.
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- Oxygen Bottom Blowing Processes (OBM).
- Hybrid BOF Processes.
- EAF with Oxygen Lancing.
- Secondary Steelmaking Process.
- Solidification of Steel.

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- Vacuum Treatment of Liquid Steels.
- Continuous Casting of Steel .
- Commentary on Practical Steelmaking.
- Values from SMS-wastes.
- Dynamic Material balancing.
- Steel plant Management Practices.
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Author

R. H. Tupkary

Dr. R. H. Tupkary graduated in Met. Engg. from Bananas Hindu University in 1959 in first class and was placed at third position in merit list. He completed M.Eng.Sci. and Ph.D. from University of Melbourne in 1963 and 1966 respectively. He worked as a lecturer in Met. Egg. during 1959-62 and Reader during 1966-1970 period in BHU and then joined Visvesvaraya Regional College Engineering, Nagpur as Professor and later became head and voluntarily retired in 1994. Dr. Tupkary is a recipient of Binani Gold Medal of Indian Institute of Metals in 1972 and Distinguished Alumnus Award of BHU in 1988. He has published several technical papers and is more known for his two books, one on Steel Making and the other on Iron Making which are very popular textbooks of the subjects since 1977. Out of these two books, "Steel Making" was written when he was confined in Nagpur Central Jail during the emergency period of 1975-77. During his tenure as professor in VRCE, he was actively associated with Nagpur University, through its various academic and administrative bodies as their elected member. He has also worked as Managing Director of one Marathi daily published from Nagpur during the period 1994-97. He is committed social worker and is associated with varieties of such activities at and around Nagpur.

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