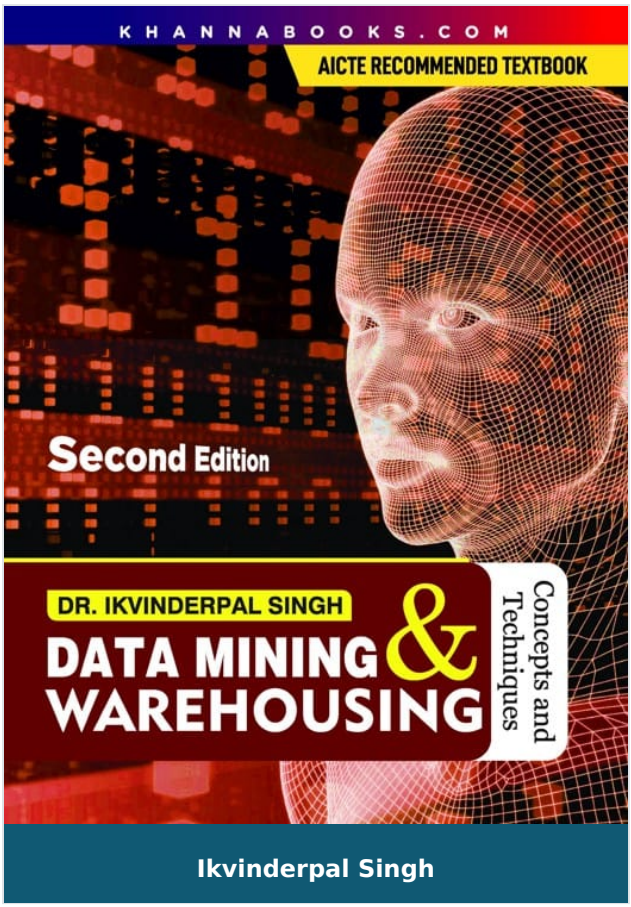

Data Mining & Warehousing

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-55387-02-8
ISBN 10 :	9355387024
E-ISBN 13 :	978-93-55387-02-8
Edition :	2
Pages :	342
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 499.00
Categories :	Computer Science Engineering, UNIVERSITY RECOMMENDED, Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book has numerous features that make it a winner, The order of topics is very logical, The choice of topics is quite appropriate for a comprehensive introductory book. The subject matter is logically structured, with chapters covering essential components of the data mining and warehousing field. The sequence of topics is well planned to provide a seamless transition from design to implementation. Within each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. The exercises can be found at the end of each chapter.

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- Data Warehousing Architecture
- Online Analytical Processing
- Data Warehouse Implementation
- Data Warehouse Back-End tools And Utilities
- Data Mining
- Applications And Trends In Data Mining

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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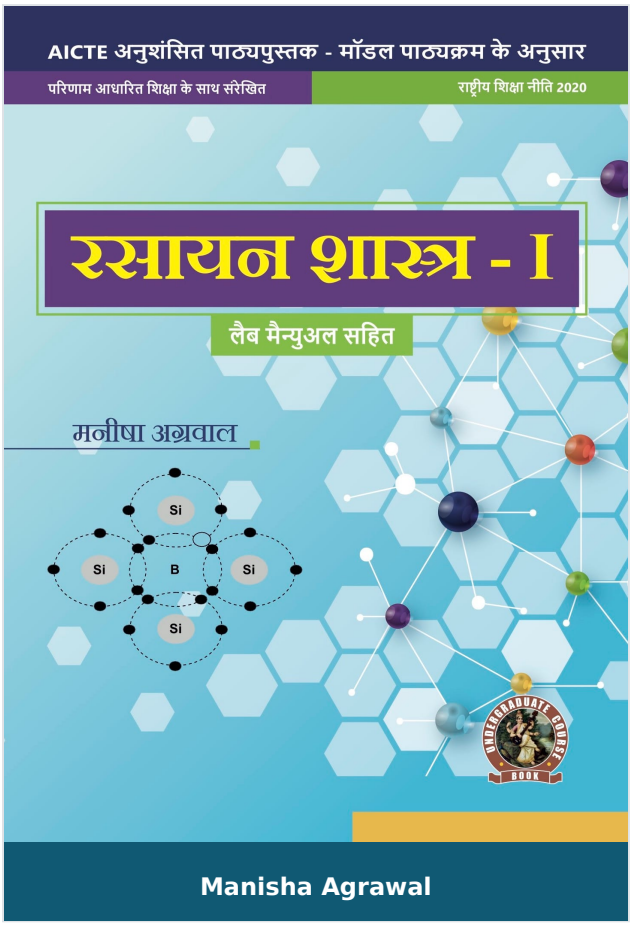

Chemistry I (with Lab Manual)

Author :	Manisha Agrawal
ISBN 13 :	978-93-55380-91-3
ISBN 10 :	9355380917
E-ISBN 13 :	978-93-55380-91-3
Edition :	First
Pages :	224
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store, Ebooks
Condition Type :	New
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.

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- Reactions Synthesis of Drug Molecules
- Annexure
- Appendices

Author

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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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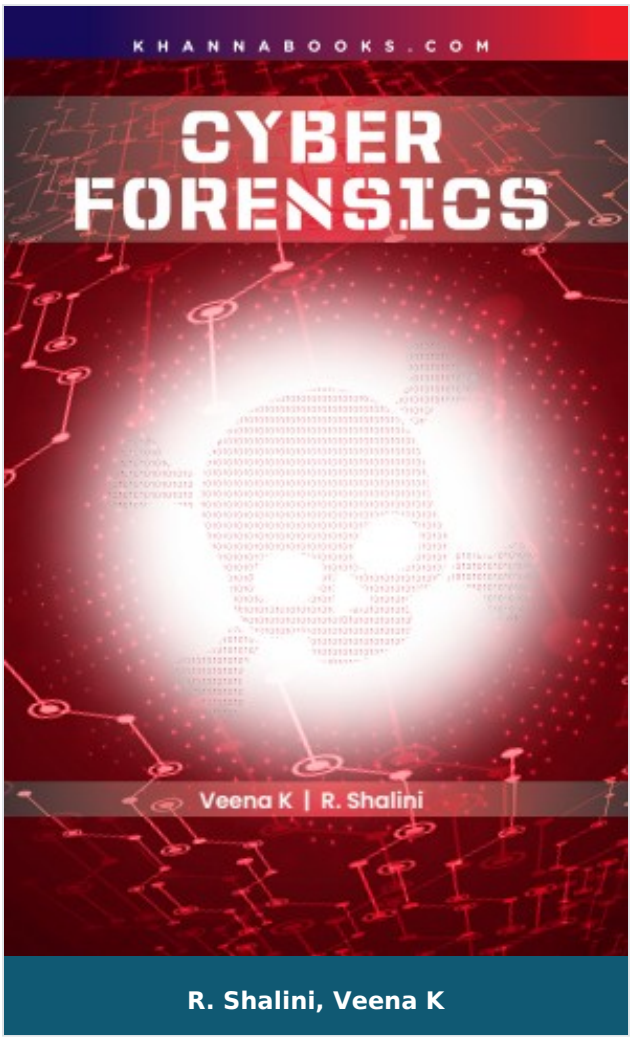

R. Shalini, Veena K

Cyber Forensics

Author :	R. Shalini, Veena K
ISBN 13 :	978-93-55385-44-4
ISBN 10 :	9355385447
E-ISBN 13 :	978-93-55385-44-4
Edition :	First
Pages :	88
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 148.00
Categories :	New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

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Product Description

CYBER FORENSICS

This book," CYBER FORENSICS," serves as comprehensive and essential guide to the rapidly evolving field of digital crime investigation. It is specifically structured to align with the curriculum for BE CSE students specializing in cyber security, but its rigorous methodology makes it indispensable for law enforcement, IT security specialists, and aspiring forensic professionals.

The book's core theme revolves around the systematic process of identifying, collecting, analyzing, and preserving electronic evidence to ensure its integrity and legal admissibility in court. It establishes a robust foundation by detailing the history of computer crime, the critical intersection of technology and law, and the fundamentals of professional forensic methodology.

Moving beyond theory, the text provides in-depth coverage of specialized forensic domains, including disk, network, memory, and mobile forensics. Readers gain practical expertise through detailed explorations of advanced topics such as window registry analysis, cloud forensics, and virtual machine forensics. The practical value is significantly enhanced by incorporating hands-on case studies and demonstrating the use of open-source forensic tools. This approach equips readers with the skills needed to navigate the complex challenges of investigative reconstruction, analyze criminal modus operandi, and secure justice in the digital world.

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- **Advanced Domains**: Provides deep dives into specialized areas like memory forensics, cloud storage analysis, and virtual machine forensics, preparing students for complex, modern cyber-investigations.
- **Practical Tools & Techniques**: integrates learning on essential forensic software such as Wireshark, bulk extractor, and YARA through engaging case studies, emphasizing real-world tool application.
- **Evidence Life Cycle**: Emphasizes the forensic methods for identifying, collecting, and preserving electronic data, along with crucial steps like forensic imaging and maintaining the chain of custody.
- **Data Artifact Analysis**: Explores the structure of storage devices, including SSD devices, and teaches the extraction and analysis artifacts, hidden data, and file signatures.
- **Criminal Profiling**: Focuses on investigative reconstruction techniques, analyzing the modus operandi (MO), motive, and technology used by cybercriminals for effective profiling and case resolution.
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- Advanced Cyber Forensics

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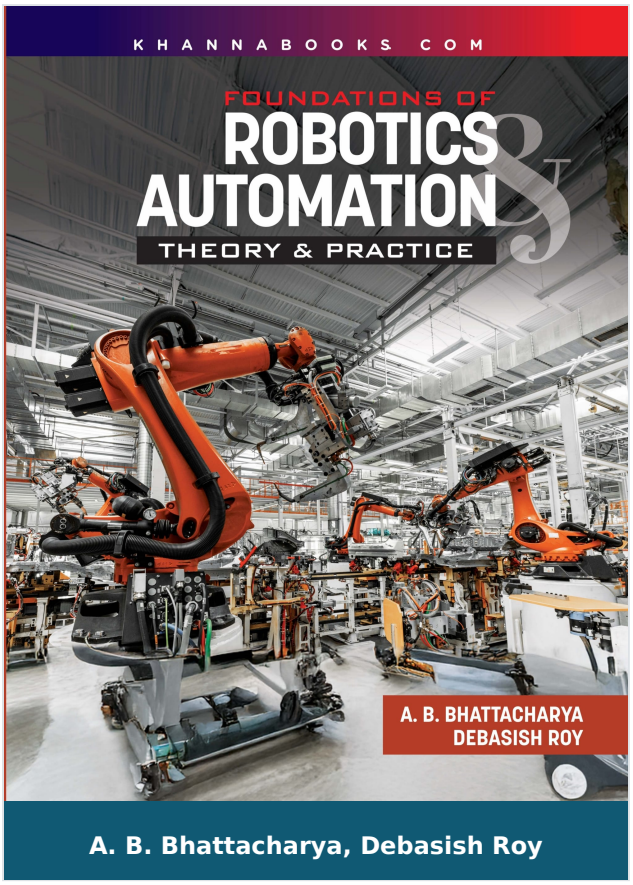

Foundations of Robotics & Automation (Theory & Practice)

Author :	A. B. Bhattacharya, Debasish Roy
ISBN 13 :	978-93-55388-00-1
ISBN 10 :	9355388004
E-ISBN 13 :	978-93-55388-00-1
Edition :	1
Pages :	428
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 575.00
Categories :	Emerging Technologies, Book Store
Condition Type :	New
Country Origin :	India

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- Control Theory with the Study of controlling the behavior of Dynamics Systems.
- Kinematics and Dynamics in the Study of Motion and the Behavior of Object and System.
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- Signal Processing for analyzing Vast Data Generated in Digital World.
- Optimization Process of finding the Best Possible Solution from a Set of Available Option.
- Computer Vision as a Field of Artificial Intelligence.
- Quantum Computing a Applied to Robotics and Automation.

Author

A. B. Bhattacharya

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

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served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

Debasish Roy

Dr. Debasish Roy is a highly accomplished and motivated professional with a robust academic background in Information Technology, including an MCA, MBA M. Tech, and PhD. He was currently the Director General(Railways) at a top-level position in the Indian Police Service (IPS). He received the Indian Police Medal and President's Police Medal in 2000 and 2010. He is well known for pioneering contributions in land mobile radio systems. He is highly recognized for spearheading strategic planning and execution of security measures for the railways network, implementing innovative technologies to enhance railway security and counteract emerging day-to-day operations efficiently. He

has provided expert guidance on implementing land mobile radio system for public safety agencies and conducted groundbreaking research in cryptanalysis, leading to development of advanced techniques for enhancing cyber security. He successfully led a team in designing and implementing secure communication protocols for land mobile radio systems, ensuring robust and encrypted communication. He has published numerous research papers in reputed conferences. He mentored and guided students at the postgraduate and doctoral levels. He has a proven track record of effective leadership and team management, besides all his strategies planning and execution in high-stakes environments. He received many honors and awards for his outstanding contributions to the field and was recognized for exceptional leadership and innovation in technology-driven security initiatives. He completed an Executive Program in Quantum Company and Machine Learning from IIT Delhi in 2023. He participated in the Workshop on Machine Learning for Cryptology (ML4Crypto 2023) at ISI, Kolkata from November 8-10, 2023, organized by SAG, DRDO. His recent paper on " Iterative Quantum Algorithm for Linear System Solving" has been accepted at the International Conference SAI, Computing, 2024 London, organized by Microsoft Corporation.

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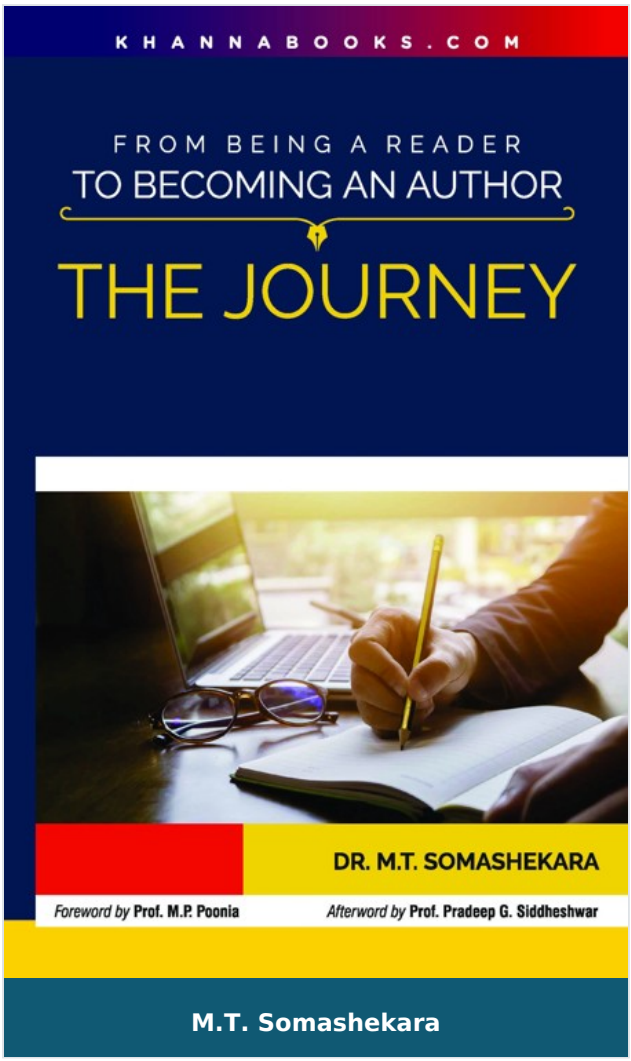

The Journey - From Being a Reader to Becoming an Author

Author :	M.T. Somashekara
ISBN 13 :	978-93-89139-05-1
ISBN 10 :	9389139058
E-ISBN 13 :	978-93-89139-05-1
Edition :	First
Pages :	130
Type of book :	Physical
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 199.00
Categories :	Management Books, General Books, Book Store
Condition Type :	New
Country Origin :	India

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Here is a collection of my motivational and directional messages on authoring academic books. They answer the questions why should a teacher in an institution of higher learning involve in authoring an academic book? And How to go about authoring keeping in mind the expectations from the book’s perspective readers and the expectations from the prospective publishers?

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- Impact of Authoring on our Life
- Directional Communication on How to Go About Authoring
- Responses from Professors of eminence, teachers, friends and team members on the initiative and on the motivational and directional communications.
- Postface
- Afterword.

Author

M.T. Somashekara

M.T. Somashekara is with the Department of Computer Science and Applications, Bangalore University, Bengaluru. He has over two decades of teaching experience at both UG and PG levels. He has authored three other books ‘Problem Solving with C’, ‘Object-Oriented Programming with C++’’ and ‘Object-Oriented Programming with JAVA’ published by PHI Learning Private Limited, New Delhi and all of these have seen multiple editions. They have been adopted as textbooks/reference books for UG and PG courses of more than a hundred universities and autonomous colleges in the country. He has also authored a unique motivational and directional book on authoring academic books entitled ‘The Journey – From Being a Reader to Becoming an Author’ brought out by

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Khanna Publishing House and it is useful for those aspiring to become academic authors as it not only motivates but guides also as to how to go about academic authoring. He has several research papers to his credit in national and international journals. He is a life member of ISTE CSI, ISCA, and IUPRAI. His areas of academic interest include Data Structures, Algorithms, Programming Languages, Operating Systems, and Databases. His areas of research include Image Processing and Pattern Recognition.

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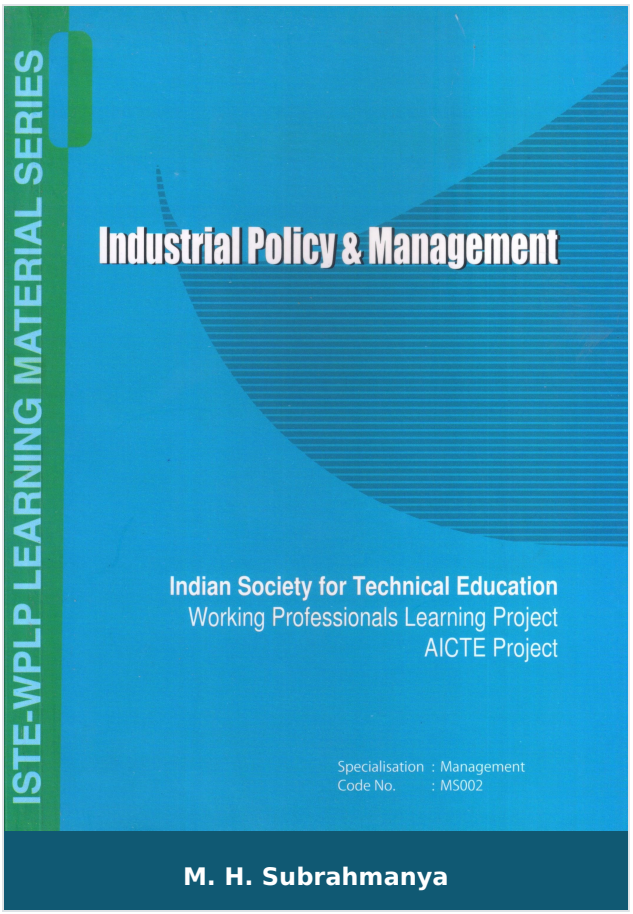

Industrial Policy & management

Author :	M. H. Subrahmanya
ISBN 13 :	978-93-55386-92-2
ISBN 10 :	9355386923
E-ISBN 13 :	978-93-55386-92-2
Edition :	1
Pages :	268
Type of book :	Physical
Year :	2009
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 385.00
Categories :	Management Books, Book Store, ISTE Series
Condition Type :	New
Country Origin :	India

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Industrialization is the sine-qua-non of economic development. Policy makers in Indian economy have attached strategic significance of industrialization with the twin objectives of employment generation and acceleration of economic development, among others. Industrial Policy has a decisive role of play in the management and growth of industrial enterprises as well as over all industry. India's Industrial Policy has undergone remarkable changes over a period of time 1950s to 1980s to a period of enormous economic freedom since 1990s, industrial enterprises have seen and experienced different turbulent times. All these have valuable lessons to be learnt not only for academic and business researchers but also for managers and executives of industrial enterprises of different sizes. It is to meet this objective that this monograph on Industrial Policy & Management has been written.

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- Small & Medium Enterprises (SMEs) om India: Policy and Growth.
- Environmental Policy for Industry in India.
- Technology Policy and Research & Development in Industry.
- Labour Policy.
- How to Set-up an Enterprise?

Author

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Dr. M. H. Bala Subrahmanya is a Professor (Economics) at the Department of Management Studies, Indian Institute of Science (IISc), Bangalore. He has done M. A. (First Rank and Gold Medallist) at Mysore University and Ph.D. in Economics with Indian Council for Social Science Research (ICSSR) fellowship at Institute for Social & Economic Change, Bangalore. One of his research papers won an award from the Intermediate Technology Development Group, London in 1997. He won Commonwealth Fellowship in

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1999-2000 and worked as a Visiting Research Fellow at the Foundation for Small and Medium Enterprise Development, University of Durham, United Kingdom during February-July 2000. He was awarded Japan Foundation Fellowship for 2004/2005 and he worked as a Visiting Research Fellow at the National Graduate Institute for Policy Studies(GRIPS) Tokyo, Japan during March 2005-February 2006. In 2008, one of his papers won Emerald Literati Network Highly Commended Award. He has been awarded Fulbright-Nehru Senior Research Fellowship for 2009/2010. He has published more than 50 research papers in refereed national and international journals and presented 15 research in International Conferences. His field of specialization is Industrial Economics. He is currently involved in doing research & consultancy projects, teaching and guiding students for Ph.D.

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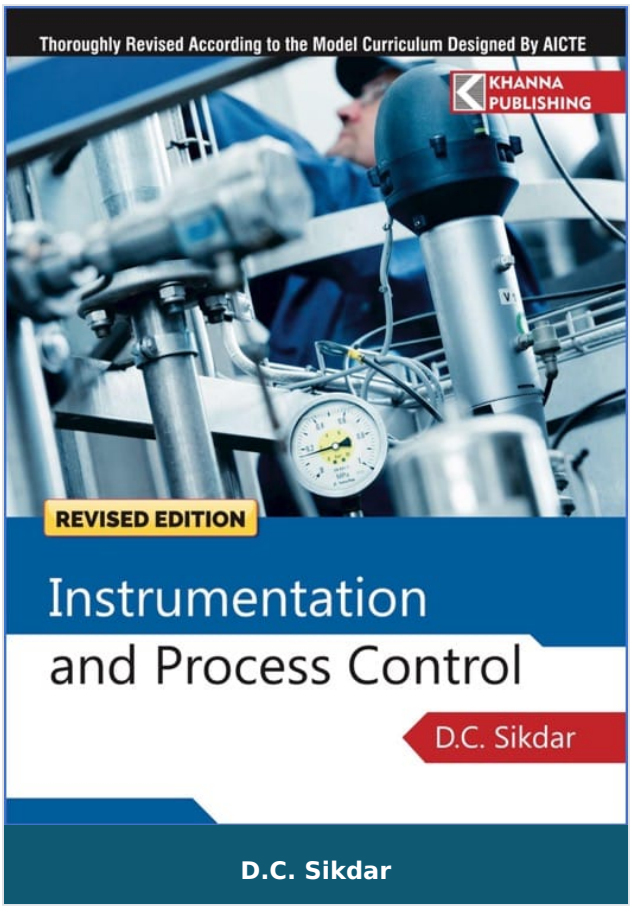

Instrumentation and Process Control

Author :	D.C. Sikdar
ISBN 13 :	978-93-82609-04-9
ISBN 10 :	9382609040
E-ISBN 13 :	978-93-82609-04-9
Edition :	1
Pages :	368
Type of book :	Physical
Year :	2022
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 399.00
Categories :	Chemical Engineering, UNIVERSITY RECOMMENDED, Chemical Engineeringg, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

This book is students friendly. It also demonstrates how to solve the industry related problems that crop up in Chemical Engineering Practice. The chapters are organized in a simple way that enables that students to acquire and in depth understanding of the subject. The emphasis is given to the fundamental of measuring instrument, Laplace Transform, Basic Concept of process control, first order and Second order system, Control of Industrial Bio-processes, Controller and Final control elements, Block diagram reduction techniques, Determination of Stability of a process, Advanced control techniques and control Structure of unit operations, all coming under the realm of Process Control. Apart from the numerous illustrations, the book contains review questions, exercises and aptitude test in chemical Engineering which bridge the gap between theoretical learning and practical implementation. All numerical problems are solved in a systematic manner to reinforce the understanding of the concepts.

This book is primarily intended as a textbook for the under graduate students of Chemical Engineering, It will also be useful for other allied branches such as Medical Electronics, Aeronautical Engineering, Polymer Science and Engineering, Bio-technology as well as diploma in Chemical Engineering.

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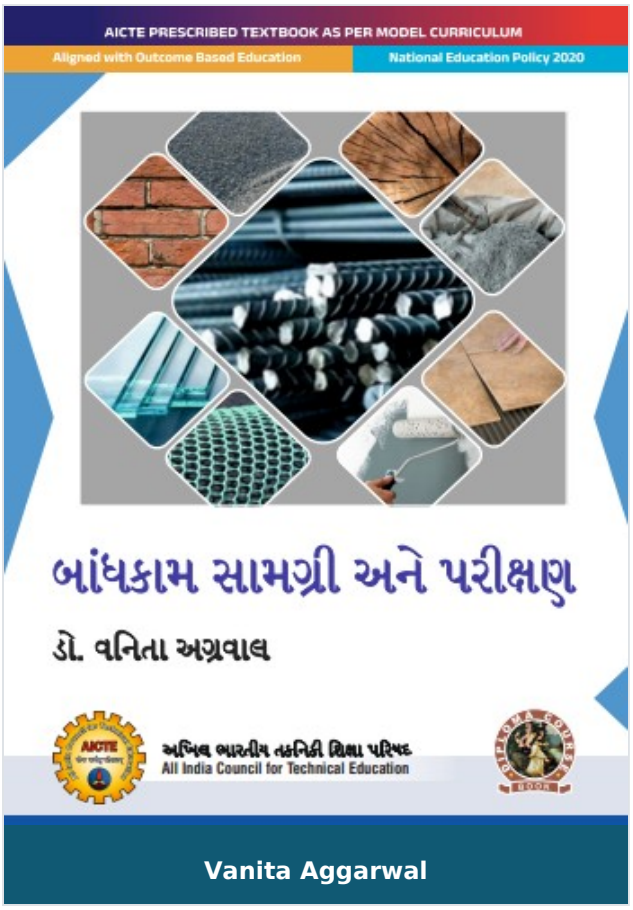

Construction Materials and Testing

Author :	Vanita Aggarwal
ISBN 13 :	978-93-55386-12-0
ISBN 10 :	9355386125
E-ISBN 13 :	978-93-55386-12-0
Edition :	First
Pages :	192
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

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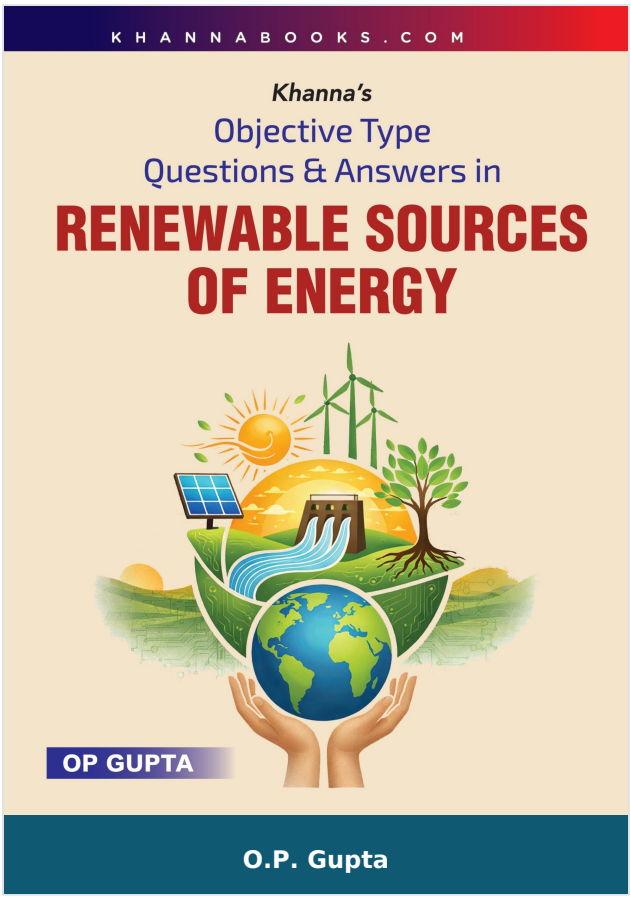

Khanna's Objective Type Questions & Answers in Renewable Sources of Energy

Author :	O.P. Gupta
ISBN 13 :	978-93-74549-43-8
ISBN 10 :	9374549433
E-ISBN 13 :	978-93-74549-43-8
Edition :	First
Pages :	192
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	OBJECTIVE TYPE BOOKS, New Arrivals, Environmental Engineering, Environmental Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Objective Type Questions and Answers in Renewable Sources of Energy is a comprehensive academic resource designed to provide a deep understanding of the rapidly evolving field of sustainable energy. Authored by Om Prakash Gupta, an experienced professional in human resource development and engineering, this book serves as a vital tool for mastering the theoretical and practical nuances of green technologies. It covers a broad spectrum of topics, including solar, wind, geothermal, biomass, and ocean energy, as well as emerging fields like nuclear fusion and Magneto Hydro Dynamic (MHD) power generation.

The book is specifically tailored to meet the curriculum needs of undergraduate, postgraduate, and diploma students across various engineering branches. It also serves as an essential preparatory guide for competitive associate membership examinations such as AMIE, AMIIM, and AMIICHE. By blending hundreds of objective-type questions with detailed short-answer explanations and an extensive glossary, the text ensures that readers can effectively bridge the gap between classroom learning and professional application. Whether you are a student, a faculty member, or a practicing consultant, this book offers a structured and engaging approach to mastering the clean energy paradigms of the future.

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- Glossary

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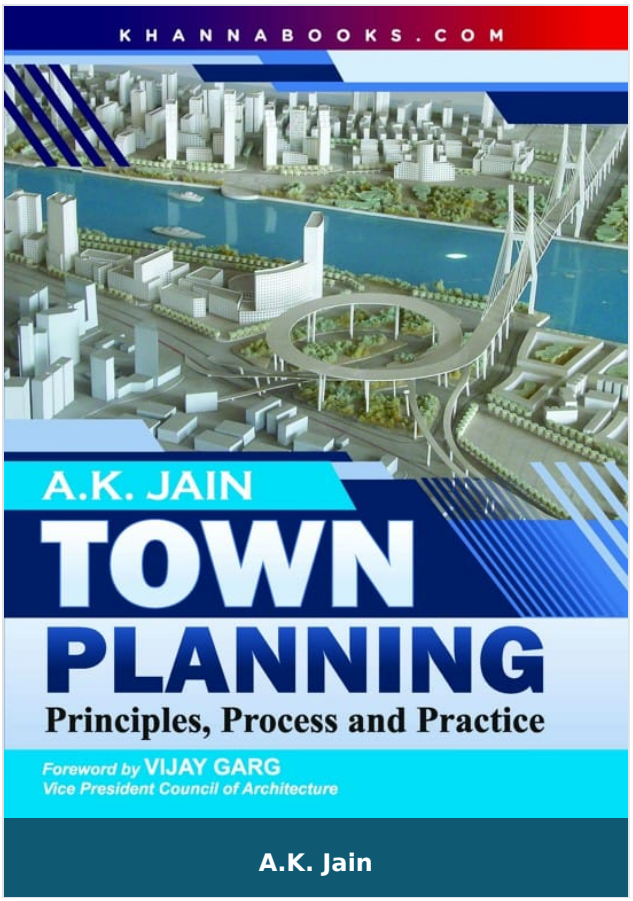

Town Planning

Author :	A.K. Jain
ISBN 13 :	978-93-86173-40-9
ISBN 10 :	9386173409
E-ISBN 13 :	978-93-86173-40-9
Edition :	First
Pages :	584
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 550.00
Categories :	Architecture Engineering, Book Store
Condition Type :	New
Country Origin :	India

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India's 7936 cities and town with 377 million urban population provide 60 per cent of the GDP and 70 per cent of the jobs. However, the lack of planning has resulted in unplanned growth with slums, poor urban infrastructure services, housing, transport and environment. To meet these challenges, it is necessary to understand the history, principles, concepts and process of town planning, As an interdisciplinary subject, town planning synthesis the social, cultural, economic, technical, legal, environmental and institutional dimensions.

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- Chapter-10: Housing For All
- Chapter-11: Towards a new land Policy
- Chapter-12: Planning a Safer and Resilient City
- Chapter-13: Village planning
- Chapter-14: Legal Framework for town Planning

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A.K. Jain, as Commissioner (Planning) Delhi Development Authority worked on the Master Plan for Delhi-2021, National Urban Housing and Habital Policy, National Urban Transport Policy and various urban projects. He was a member of the Committee Constituted by the Ministry of Urban Development, GOI to review the statute of the Delhi Development Authority vis-a-vis the changing urban scenario and new policy initiatives. As a member of editorial Board of International Journal of Environmental Studies (UK) and is author of several books on urban development and management. He is visiting faculty at Delhi

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Environmental Science

Author :	Subrat Roy
ISBN 13 :	978-93-91505-65-3
ISBN 10 :	9391505651
E-ISBN 13 :	978-93-91505-65-3
Edition :	First
Pages :	120
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store, Ebooks, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

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“Environmental Science” is an audit course for the first year Diploma programme 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 four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as set of exercise at the end of each unit to test the student’s comprehension.

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- Renewable sources of Energy
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
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Engineering Graphics & Design

Author :	Pradeep Jain
ISBN 13 :	978-93-91505-68-4
ISBN 10 :	9391505686
E-ISBN 13 :	978-93-91505-68-4
Edition :	First
Pages :	272
Type of book :	Physical
Year :	2022
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
Categories :	AICTE Prescribed Textbooks, Tamil Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

Product Description

This textbook “Engineering Graphics and Design” is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples.

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