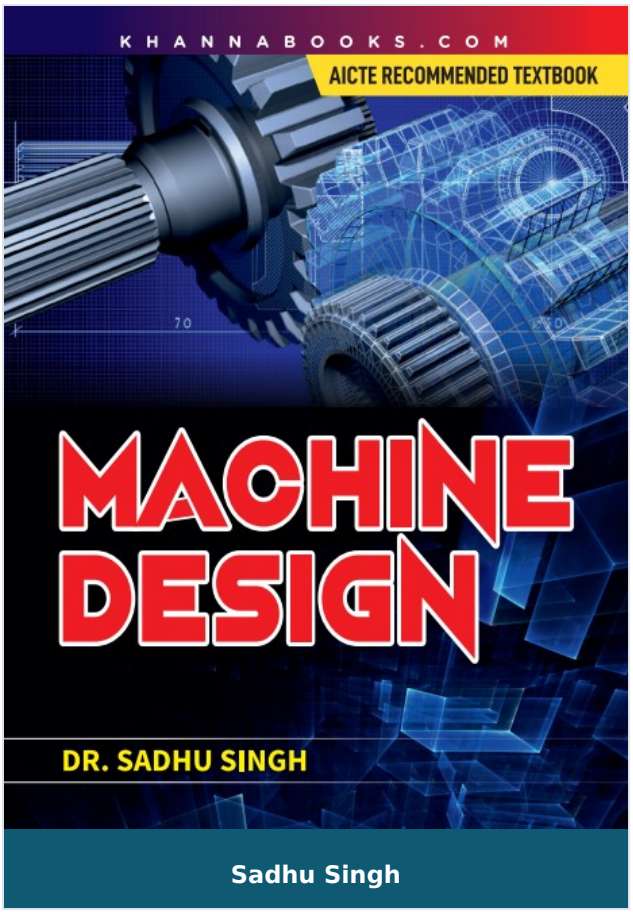

Machine Design

Author :	Sadhu Singh
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E-ISBN 13 :	978-93-82609-57-5
Edition :	1
Pages :	826
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Publisher :	Khanna Publishing House
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This book is useful for the students of B. Tech/ B.E. for all Indian Universities and Institutions. This book covers all the topics related to Machine Design components and Machines. The matter contains data as per BIS. A lot many problems have been solved taking data from BIS. utilizing the the latest standards and codes, it is expected that the book shall be appreciated by the students as well as teachers.

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- Engineering Design
- Selection of Engineering Materials
- Design for Static Load
- Design for Variable Load
- Riveted Joints
- Welded Joints
- Screwed Joints
- Power Screws
- Transmission Shafts
- Keys and Couplings
- Levers
- Cotter and Knuckle-Joints
- Pine Joints
- Mechanical Springs
- Flat & V-Belts
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- Spur Gears
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- Clutches and Brakes
- Internal Combustion Engine Parts
- Lubrication in Transmission System
- Multi-Choice Questions

Author

Sadhu Singh

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 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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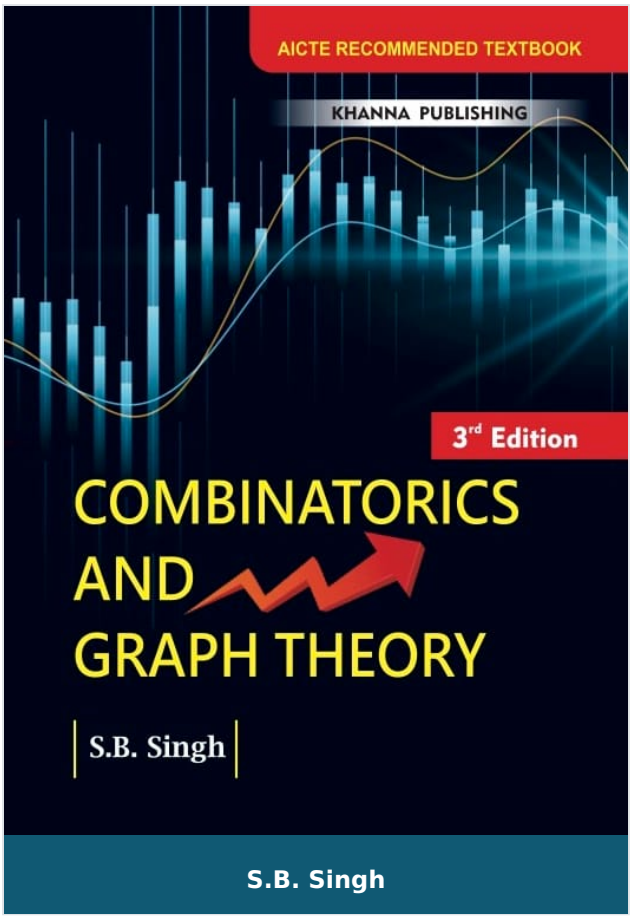

S.B. Singh

Combinatorics and Graph Theory

Author :	S.B. Singh
ISBN 13 :	978-81-90645-10-2
ISBN 10 :	8190645102
E-ISBN 13 :	978-81-90645-10-2
Edition :	Third
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- Planar Graph
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- Application of Graph in Computer Science
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- Appendix
- Index

Author

S.B. Singh

Dr. S.B. Singh is an Associate Professor in the Deptt. Of Mathematics Statistics and Computer Sc., G.B. Pant University of Agri. & Tech., Pantnagar. He has around thirteen years of teaching experience at different Engineering Colleges and University. He has authored and co-authored seven more books. he has been conferred with four national awards.

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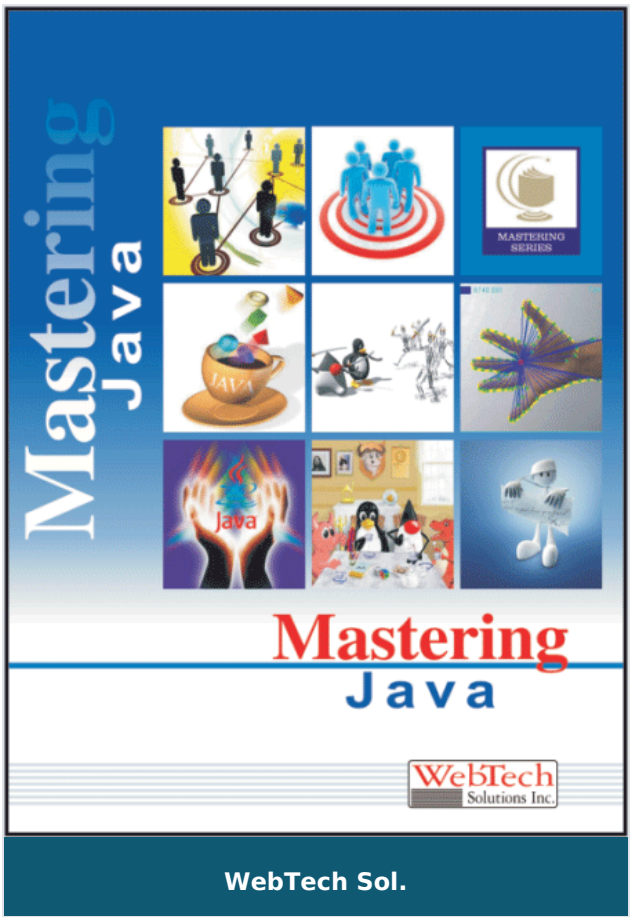

WebTech Sol.

Mastering Java

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E-ISBN 13 :	978-93-80016-43-6
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Pages :	354
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Publisher :	Khanna Publishing House
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Categories :	Book Store, Mastering Series, ADVANCE COMPUTER BOOKS
Condition Type :	New
Country Origin :	India

Product Description

Java with its allied software like JavaScript, Java Servlet and others are such vast subject that it will take a lot of time to understand it fully. This book has been written in mind to make you aware of the options available in the software and how they can be used. It is like telling the child about the steps and stairs. You are the one who is to climb the stair. This book will just guide you how to use the stairs.

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- Introduction to JAVA
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- Java Foundation Classes (JFC) and Swing
- Working with Java Script
- More on Java Script
- Java Beans
- Java Server Pages
- Java Directives and Standard Actions
- Java Servlets
- JDBC (Java Database Connectivity)
- Questions

Author

WebTech Sol.

WebTech Sol. WebTech Solutions Inc. is one of the pioneers of the technology industry. Webtech 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 ways 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.

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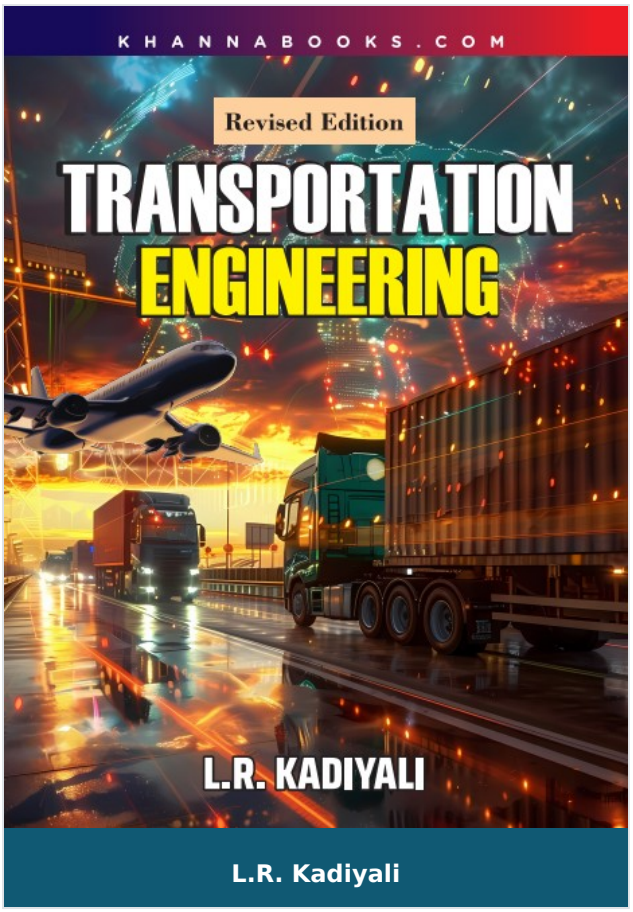

L.R. Kadiyali

Transportation Engineering

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ISBN 13 :	978-93-82609-85-8
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E-ISBN 13 :	978-93-82609-85-8
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Product Description

India's Transport System has several deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas.

The book addresses these issues and it is hoped that the engineering students studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career. This book has been designed keeping in mind the latest syllabi of all major Indian Universities.

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- Development of Roads in India After Independence
- Geometric Design
- Surveys, Investigations and Project Preparation
- Embankment Design and Construction
- Highway Drainage
- Cross Drainage Structures
- Types of Pavements and Factors Governing Pavement Design
- Design of Flexible Pavement
- Design of Rigid Pavements
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- Construction of Pavements
- Maintenance of Highways
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- History of Growth of Railways in India
- Surveys and Project Preparation
- Geometric Design of Railway Track
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- Point and Crossings
- Signalling and Traffic Control
- Traction and traction Resistance
- Stations, Yards and Station Equipment
- Construction of a Railway Line
- Maintenance of a Railway Line
- Track Renewal
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- Lock Entrance
- Docks
- Transit Sheds, Warehouses and Cargo Handling Facilities
- Inland Water Transport
- SECTION-7: MULTI-MODAL TRANSPORT
- Multi-Modal Transport

Author

L.R. Kadiyali

L.R. Kadiyali Dr. L.R.Kadiyali is B.E.(Hons.), from Bombay and pursued Ph.D. from Kakatiya University.He has done P.G. diploma in Highway and Traffic Engineering from Newcastle-Upon-Tyne. He is Formerly Chief Engineer, (Roads Wig), Ministry of Road Transport & Highways, New Delhi and Study Director, Road User Coast Study, Central Road Research Institute New Delhi.

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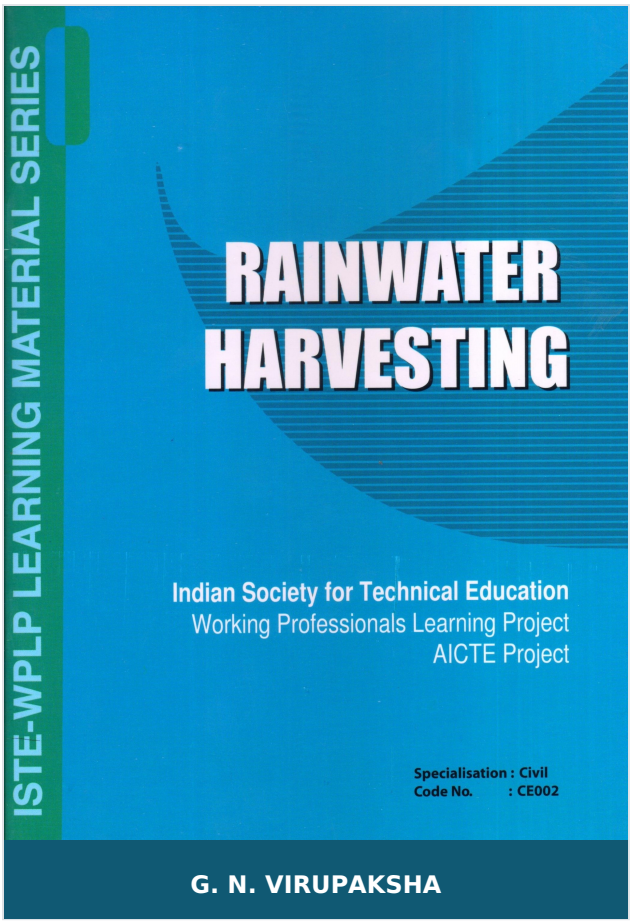

Rainwater Harvesting

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Product Description

Water is essential for the existence of life on earth. Increase in human population has resulted in exploitation of surface and underground water sources. Water is precious and it should always be conserved.

Rainwater is a renewable resource. Rainwater harvesting in various forms such as micro-residential ; medium-infiltration into ground in open yards, parks, check dams and so on; macro-reservoirs across water streams and the like will go a long way in conserving water for tomorrow.

The book "Rainwater Harvesting", very clearly mentions the need, resource availability, methods of rain water harvesting and also about inter-basin transfer of water, thereby possibly creating a National Water Grid.

This book is useful for practicing engineers and administrators who are responsible for water resource activities. Rainwater harvesting should be looked upon as a shield to prevent extinction of life from the earth.

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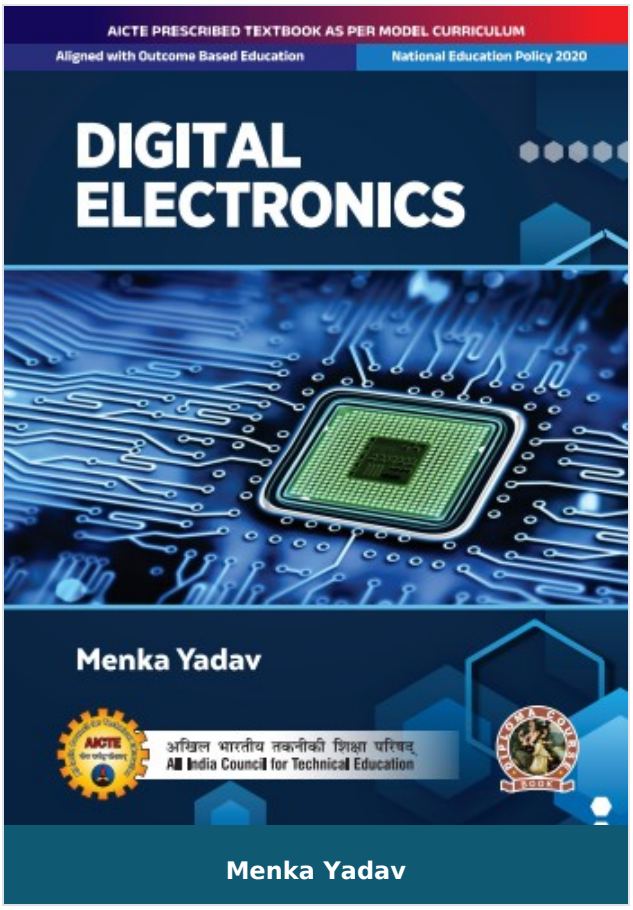

Digital Electronics

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Country Origin :	India

Product Description

Digital Electronics

Digital Electronics is the most popular subject now-a-days due to digital era. Everywhere applications of digital are making it essential for ECE. CSE and Electrical diploma holders. This book is basic for new learners. The book introduces the concept of digital electronics, number circuits, memory and finally data converters. This book contains practical's using ICs, Verilog language and PSPICE as well.

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.
- 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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- Sequential Logic Circuits
- Memory Devices
- Data Converters
- Co and Po Attainment Table
- Index

Author

Menka Yadav

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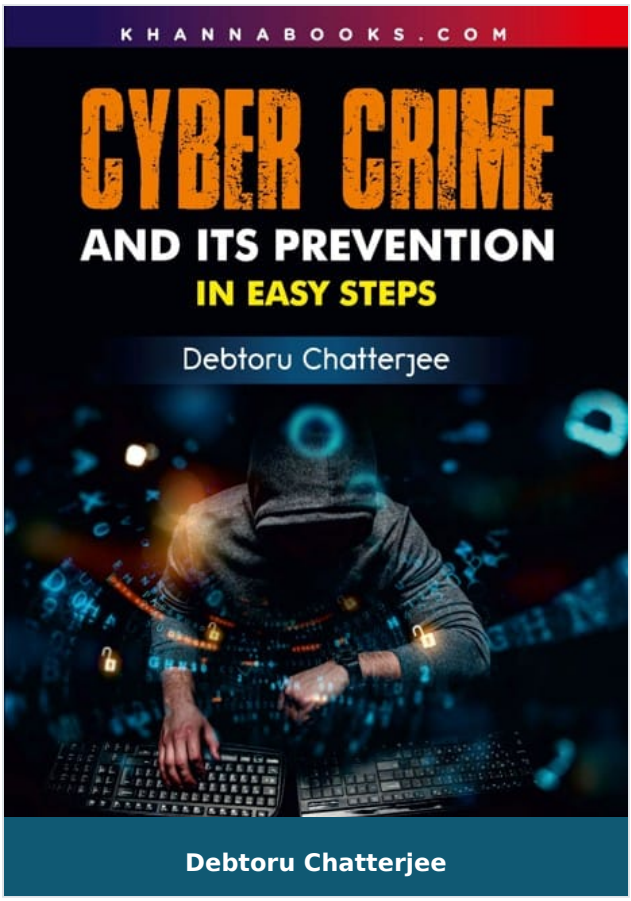

Debtoru Chatterjee

Cyber Crime and its Prevention in Easy Steps

Author :	Debtoru Chatterjee
ISBN 13 :	978-93-55380-74-6
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E-ISBN 13 :	978-93-55380-74-6
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Product Description

This book has been divided into two parts. The learning outcomes from each are as follows:

PART -1

The reader will gain awareness of how fraudsters:

- acquire one-time passwords via social engineering to commit OTP- based crimes. - exploit vulnerabilities to create false ATMs. - take advantage of poor over-sight mechanisms to remain undetected. - exploit air gaps to manipulate data in transit for fraud. - mislink accounts in a cross-institutional content to syphon off funds. - launder stolen proceeds. - take advantage of default configurations to gain unauthorized network privileges and how to devise counter-measures to deter such frauds.

PART -2

The Reader will gain awareness of how:

- hackers break into android smartphones to steal OTP and other confidential information - encrypted information to and from your smartphone or computer can be intercepted - the computer can be hacked with or without social-engineering - websites are scanned for vulnerabilities and exploited - enemy computers are targeted in cyber wars - Security Operations Centers function and tactical and policy measures to counter such threats.

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- in the Call Centre
- PART-II
- Man
- in the middle attacks on Banking Devices

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- Attack
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- Hacking
- Windows 10 Personal Computers
- The
- Anatomy of Cyber War
- Inside
- a Security Operations Centre
- Towards
- a National Cyber Security Policy
- Appendix-1
- Appendix-2

Author

Debtoru Chatterjee

Debtoru Chatterjee, an Indian Postal Service Officer (1994 batch), has served 11 years in a central police organization, including as an Inspector General, besides a five-year stint as an army Colonel. An honor graduate from Presidency College Calcutta, he holds and M.Sc. (Distinction) in Cyber Forensics and Information Security from the University of Madras; an MBA (IT Systems) (Distinction) from ICFAI; and a Master in Business Laws from National Law School, Bangalore. A keen student of Kali Linux and Python, he has also authored a companion book "Cyber-Crime and its Prevention in Easy Steps".

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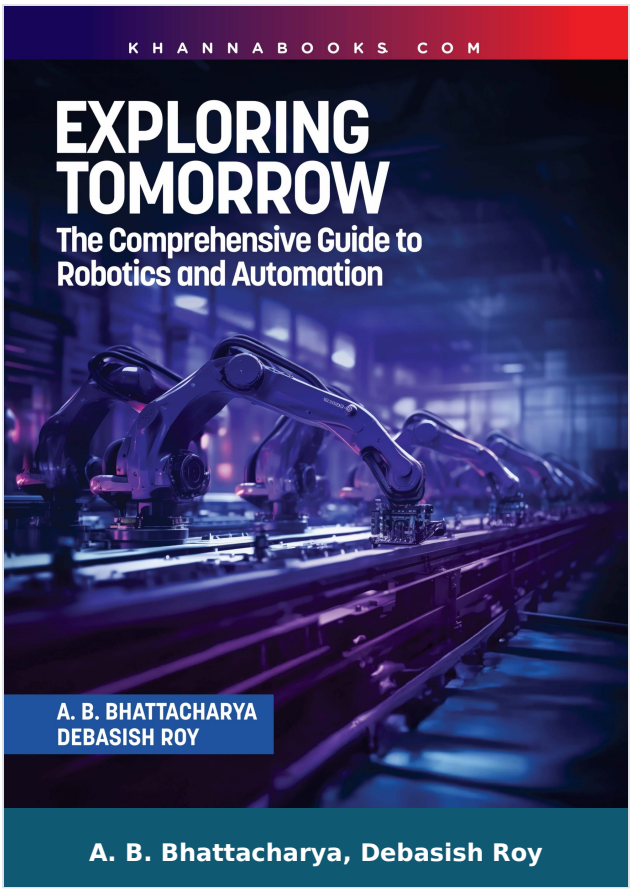

Exploring Tomorrow (The Comprehensive Guide to Robotics and Automation)

Author :	A. B. Bhattacharya, Debasish Roy
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 575.00
Categories :	Emerging Technologies, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Salient Features of the Book:

1. Covers industrial, service, domestic, healthcare, education, entertainment robots, and autonomous vehicles.

2. Focuses on human-robot collaboration, ethical challenges, privacy, and job displacement issues.

3. Details the technologies behind self –driving cars and autonomous drones. Covering AI, sensor fusion, computer vision, and control systems.

4. Explores surgical robots, rehabilitation robotics, telemedicine, and their contributions to healthcare.

5. Discusses agricultural robots for tasks like planting, weeding, harvesting, and livestock management.

6. Examines educational robots like LEGO Mind storms, Ozobot, and Sphero, and their integration into curricula.

7. Highlights the role of robotics in space missions, including rovers, unmanned spacecraft, and teleportation.

8. Explores robots used in search and rescue, hazard environments, mapping, and medical assistance.

9. Discusses robots inspired by biological systems, focusing on design, locomotion, and sensory systems.

10. Looks at the use of robots in theme parks, robotic performers, customer service, and logistics.

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11. Discusses trends in automation, collaborative robotics, and their impact on the workforce.

12. Focuses on automation in manufacturing, robotic arms, robots, and cyber security.

13. Addresses technical challenges, research efforts, and the future of robotics.

14. Envisions future developments like swarm robotics and human- like androids.

15. Numerical problems, short questions, MCQs, project works, and others for all the chapters.

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- Autonomous Vehicles and Drones: Part of the broader of Robotics and AI.
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- Robots in Education.
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- Role of Robotics in Disaster Response.
- Biologically-Inspired Robotics.
- Robotics in Entertainment and Service Industries.
- Autonomation and the Workforce: Emerging Trends.
- Interconnected Domains of Industrial Automation and Robotics.
- Robotics and Automation Technologies used in Modern Warfare.
- Challenges in 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 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

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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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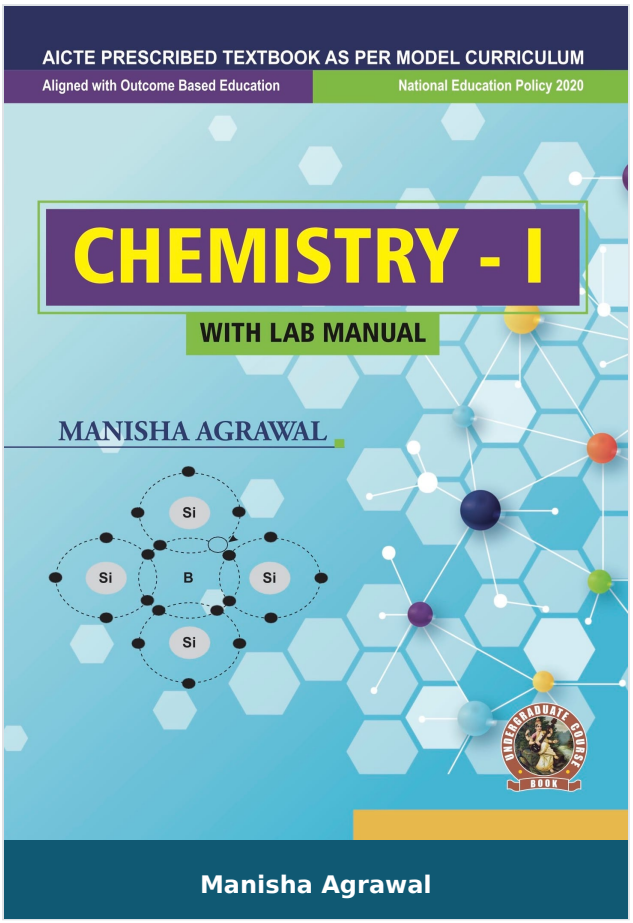

Chemistry I (with Lab Manual)

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“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.

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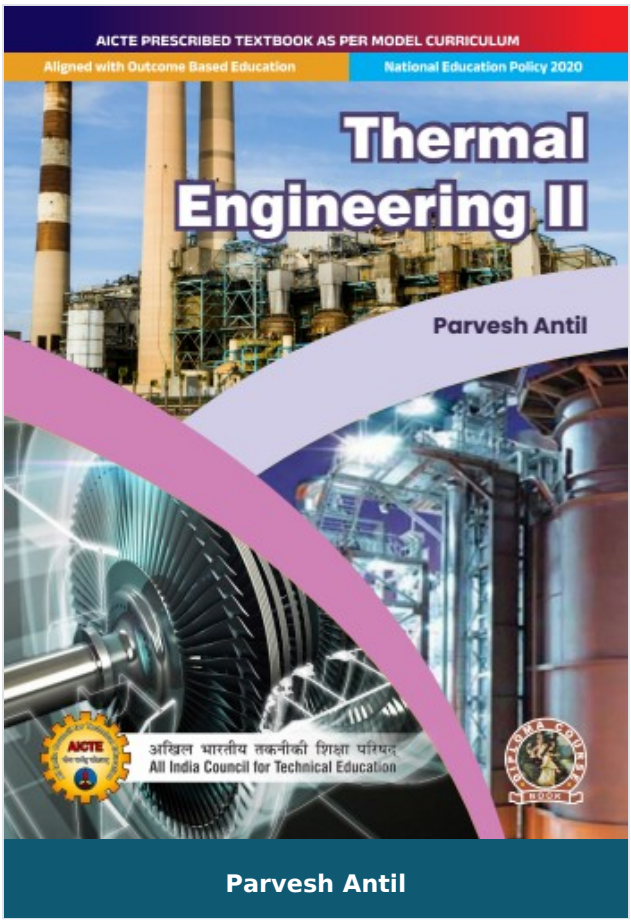

Thermal Engineering- II

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

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