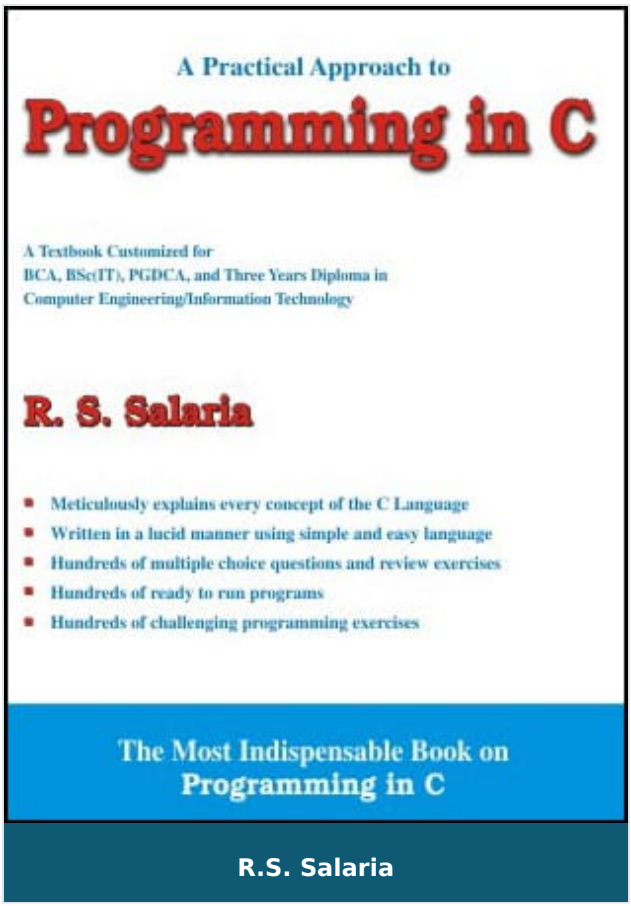

A Practical Approach to Programming in C

Author :	R.S. Salaria
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Product Description

The subject of programming in C is one of the compulsory courses in the curriculum of BCA, BSc (IT), BSc (Non-Med) with Computer science as one of the elective subject, PGDCA, and Three Year polytechnic diploma in Computer Engineering as well as Information Technology of all universities and state technical boards. The book in your hand is a customized version of my popular book application programming in C to serve as a textbook for the students taking these course. The 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 thing you need on the subject of programming in C. Provides a comprehensive coverage of the subject. Demonstrate the development of programs in a good programming style. Large number of ready to run programs for reference. Large number of multiple choice questions and review exercises to test your knowledge about the subject learned. Large number of programming exercises to test your programming skills acquired.

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- Handling Keyboard Input and Screen Output
- Control Statements
- Functions
- Arrays
- Pointers
- Structures and Unions
- String Processing
- Files

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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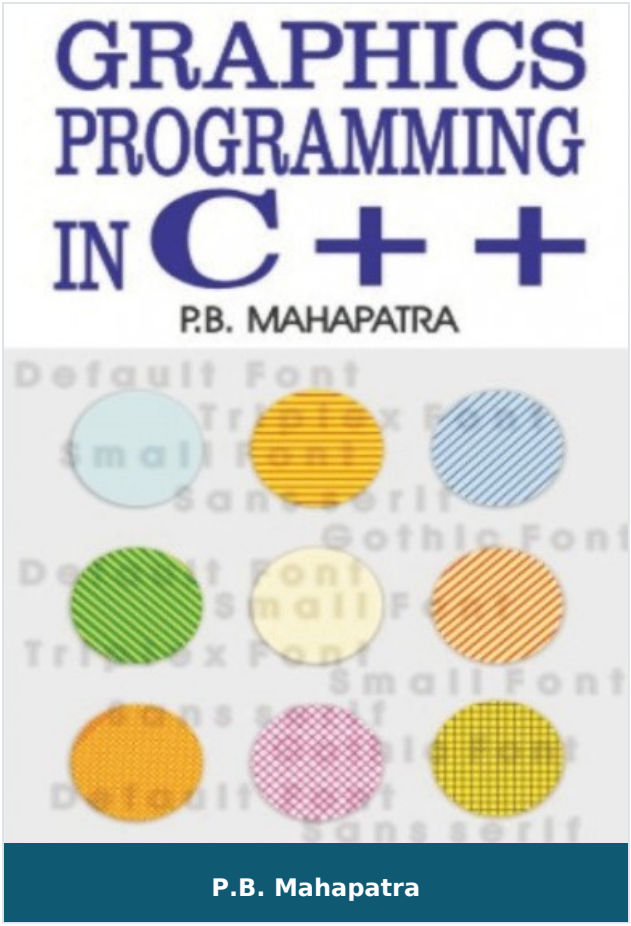

Graphics Programming in C++

Author :	P.B. Mahapatra
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Product Description

The coverage of graphics in graphics in normal courses on C or C++ is only marginal. The idea of a student after a course on or C++ is that, a graphic image can be generated through a program and not by clicking and dragging the mouse as is done in menu driven interactive packages like coral DRAW, Photoshop, AutoCAD or paintbrush, without these options a number of students fail to appreciate the very purpose of graphics under C or C++. They do not know that the compiler can be used to design full CAD packages with all these options and a lot more. Once the full potential of the C++ compiler is understood, the students, where studying engineering, BCA, MCA or attending short term computer courses, are very inquisitive and enthusiastic to learn more about graphics under C/C++.

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Table Of Contents

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- File Input/ Output of Graphic Images
- Increase your Colour Options
- Translation
- Rotation & Scaling
- Three Dimensional Graphics

Author

P.B. Mahapatra

Dr. P.B. Mahapatra, after an illustrious student career in I.I.T., Kharagpur, joined the faculty of Punjab Engineering College in 1970 as Assistant professor in the department of production Engineering. Since then he has served the institute in various capacities and at the moment serving as professor in the department of mechanical Engineering. His area of interest includes production Management, Industrial Engineering, quality control and operations research. His first books was Thinking in C published in 1996. The success of the book all over the country and numerous requests from potential readers for more such books prompted him to write a number of books on computer science. Other books authored by him include Thinking in C++, Thinking in Java, Graphic under C++ and

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Computer Aided production Management. Two more volumes, Essentials of information practice and essentials of computer Science have been authored by him for school children, written strictly according to the CBSE Syllabus, these are also very popular in school.

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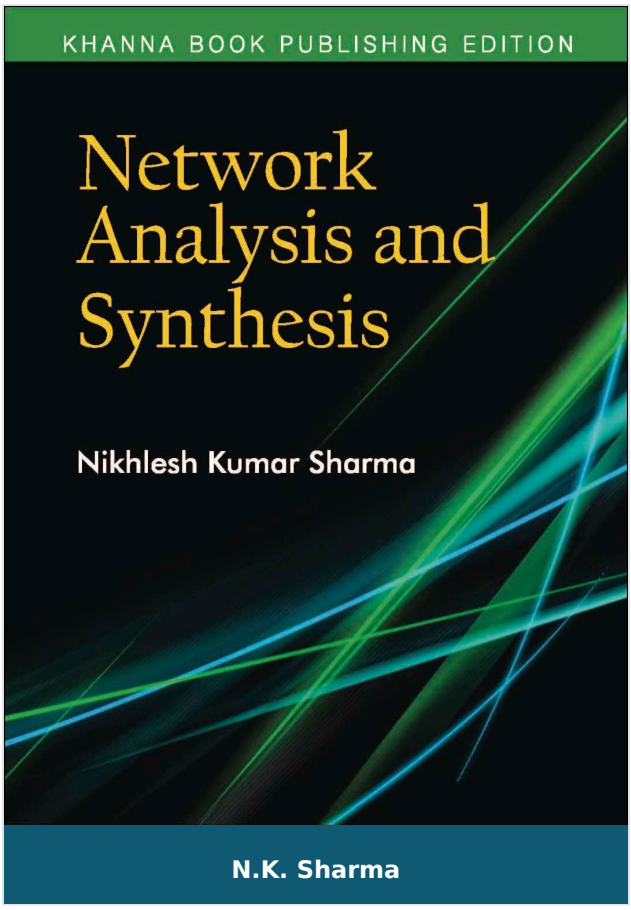

Network Analysis and Synthesis

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Product Description

This book is written in a very lucid and simplified manner to explain the concepts of 'network analysis and synthesis' It describes network terminology, various methods used to simplify networks, graph theory, various theorems, network functions, two port networks, positive real functions, network synthesis and design of passive filters and concepts of active filters.

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Table Of Contents

- Introduction
- Graph Theory
- Network Theorems
- Network Function
- Two Port Network
- Network Synthesis
- Filters
- Index

Author

N.K. Sharma

N.K. Sharma Dr. Nikhlesh Kumar sharma is working as Director of vidya College of Engineering, Bagpat road, Meerut. He has obtained his PH.D. and M. Tech. degree from IIT Kanpur in 2001 and 1993 respectively and B.Sc. (Engg.) in 1986 from Dayalbagh Educational Institute (Deemed University) Agra. He has worked as Director of Institute of Technology for women, GIDA, Gorakpur and Raj Kumar Goel Engineering College, Ghaziabad. In September 2010, he has joined krishana Institute of engineering and Technology, Ghaziabad as professor & Dean (IR &D). He is a member of Board of studies (electrical and Electronics), Mahamaya Technical University, Noida formerly UP Technical University, Lucknow. He has membership of professoral bodies of ISTE and IE(I). He has also worked as procurement officer of MHRD-World Bank TEQIP project. He has supervised 10 M. Tech. Dissertations and 02 Ph. D. thesis.

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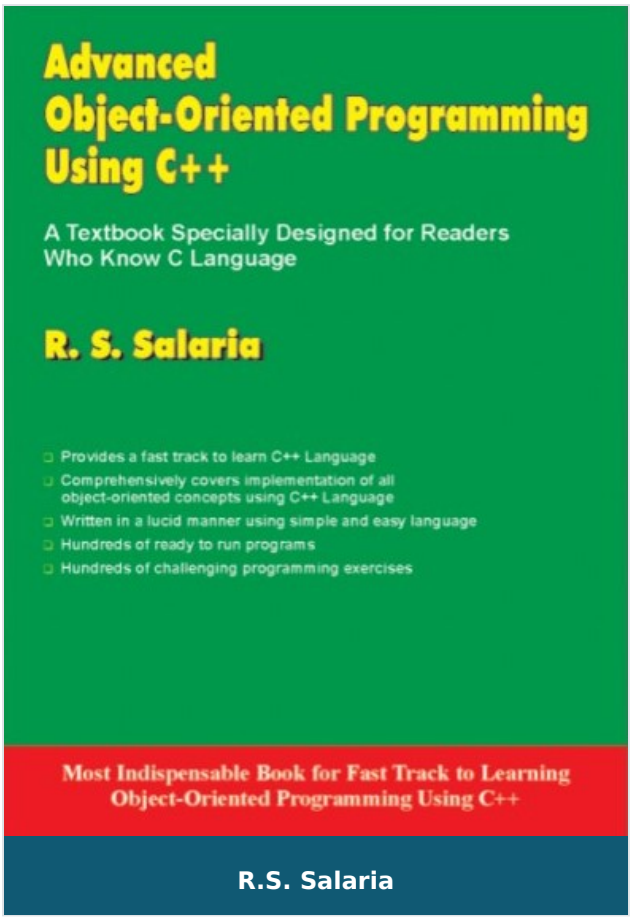

Advanced Object-Oriented Programming Using C++

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Product Description

There are two groups of readers-one who have no programming experience with C Language and the other who have programming experience with C language. This book is designed for those readers who have programming experience with C language and will provide them a fast track to learn object-oriented programming using C++. There is no repetition of the topics that they already know while learning C language. Since object-oriented concepts are altogether a new addition to C language, those are thoroughly explained and demonstrated with well designed programming examples. Provides a comprehensive coverage of the subject. Demonstrates the development of programs in a good programming style. Large number of ready to run programs for reference. Large number of multiple choice questions, true/false questions and review exercises to test your knowledge about the subject learned. Large number of programming exercises to test your programming skills acquired.

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Table Of Contents

- Migrating from C to C++
- Object-Oriented Programming Concepts
- Handling Keyboard Input & Screen Output
- Classes and Objects
- Pointers and Dynamic Memory Management
- Constructors and Destructors
- Operator Overloading and Type Conversion
- Inheritance
- Virtual Functions and Polymorphism
- Exception Handling
- Templates and Generic Programming
- File Handling
- Working with Graphics Using C++
- Introduction to Standard Template Library
- Object-Oriented Implementation of Data Structures
- Object-Oriented Implementation of Sorting and Searching Algorithms.

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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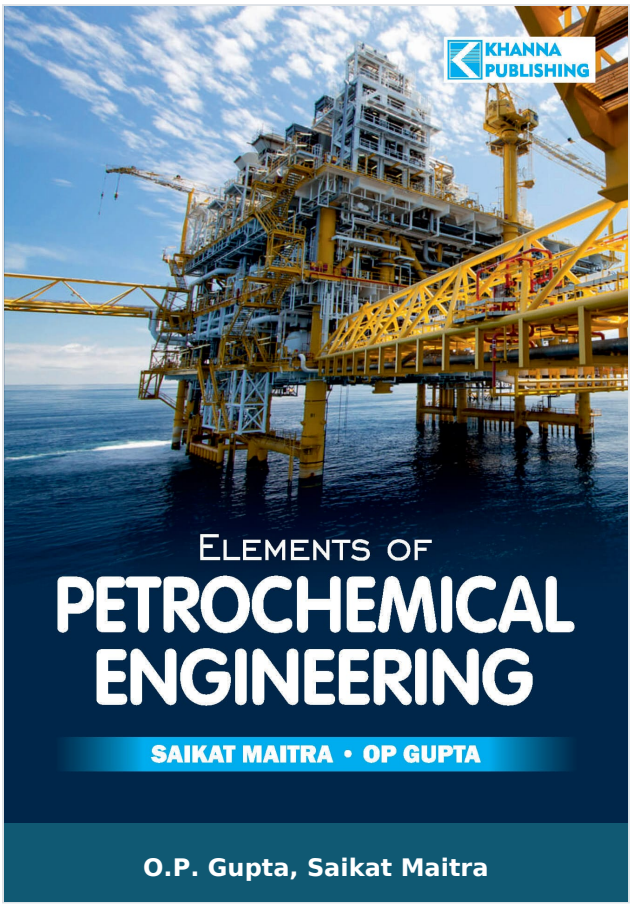

Elements of Petrochemical Engineering

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Product Description

Elements of Petrochemical Engineering book is meant for the students, teachers and practicing Engineers. This book contains the manufacture, properties and applications of important petrochemicals. Important information's about feedstocks and applications of petrochemical derived products, status of Indian Petrochemical Industry and environment standards for the petrochemical plant are given in the appendices. It also contains short questions and answers and multiple choice questions and answers drawn from examination papers of various engineering colleges for the benefits of the students.

The book is targeted to benefit the following :

Diploma in Engineering Students, Degree in Engineering Students, AMIE AMIIM, AMIICHE students, Faculty members and teaching staff, Practicing Engineers/Professionals. Latest and updated information/ data/statistics pertaining to the subject matter has been included in the edition for the benefit of the readers.

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Table Of Contents

- Introduction to Petrochemicals
- Production of Methanol (Methyl Alcohol)
- Production of Formaldehyde from Methanol(Methyl Alcohol)
- Production of Chloromethanes by Direct Chlorination of Methane (CH
- Manufacture of Trichloroethylene (C1HC = CCl
- Manufacture of Perechloroethylene (Cl
- Cl = CCl
- Production of Ethylene (CH
- = Ch
- Manufacture of Ethylene Dichloride (EDC) and Vinyl Chloride Monomer (VCM)
- Production of Ethylene Oxide (EO)
- Manufacture of Ethanolamines
- Manufacture of Propylene (C
- Production of Isopropanol (Iso-Propyl Alcohol) from Propylene
- Manufacture of Acetone by Dehydrogenation of Iso-Propanol
- Manufacture of Cumene (Isopropyl Benzene from Propylene)
- Production from Acrylonitrile from Propylene
- Production of Isoprene from Propylene
- Manufacture of Epichlorohydrin and Proplene Oxide
- Production of Aldehydes, Alcohols, Carboxylic Acid by Oxy-Processing of Olefins
- Manufacture of Butadeine (C
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- Manufacture of Xylene
- Manufacture of Phenol from Cumene
- Manufacture of Phenol from Toluene Oxidation
- Manufacture of Phenol from Hydrochlorination of Benzene
- Manufacture of Phenol from Chlorobenzene
- production of Styrene from Benzene
- Production of Phthalmic Anhydride from Napthalene or O-Xylene
- Production of Maleic Anhydride (C
-) from Benzene
- Production of Terephthalic Acid (TPA) & Dimethyl Terephthalate (DMT)
- Production of Toulene Di-Isocyanate (TDI)
- Fundamentals of Polymerisation Technology
- Polymer Processing Technologies
- Appendix A : Petrochemicals Feedstocks, Products & Applications
- Appendix B : Uses of Petrochemicals in Various Sectors
- Appendix C : All About Indian Petrochemical Industry
- Appendix D : Indian National Emission Standards for Petrochemical Plants
- Appendix E : Glossary of Terms Related to Petrochemical Engineering
- Appendix F : Bibliography/References/Further Reading
- Appendix G : Objective Type Questions and Answers
- Appendix H : Short Questions and Answers

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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.

Saikat Maitra

Prof. Saikat Maitra is presently working as the Vice Chancellor of Maulana Abul Kalam Azad University of Technology, West Bengal (formerly West Bengal University of Technology). He did his B.Sc (Honours in Chemistry) from the Presidency Colleges, Kolkata, B.Tech, M.Tech and Ph.D in Chemical Technology from the University of Calcutta. He is a Chartered Chemical Engineer and Fellow of Institute of Engineers (India). Prof. Maitra earlier worked as Professor and Principal-in-Charge at Government College of Engineering; Ceramic Technology, Associate Professor at University Technology Petronas, Malasiya and as Scientist at Central Fuel Research Institute, Dhanbad. He has worked in industries too. Prof. Maitra published 150 research papers in different national & international journals, presented 60 papers in different conferences, filed two patents, authored three books and three book chapters. He has guided twelve Ph.D students, completed several funded research projects, organized several training programmes and workshops. He visited many countries like US, Australia, Italy, Malasiya, Singapore, Thailand, Bangladesh, Baharain etc for delivering lecturers.

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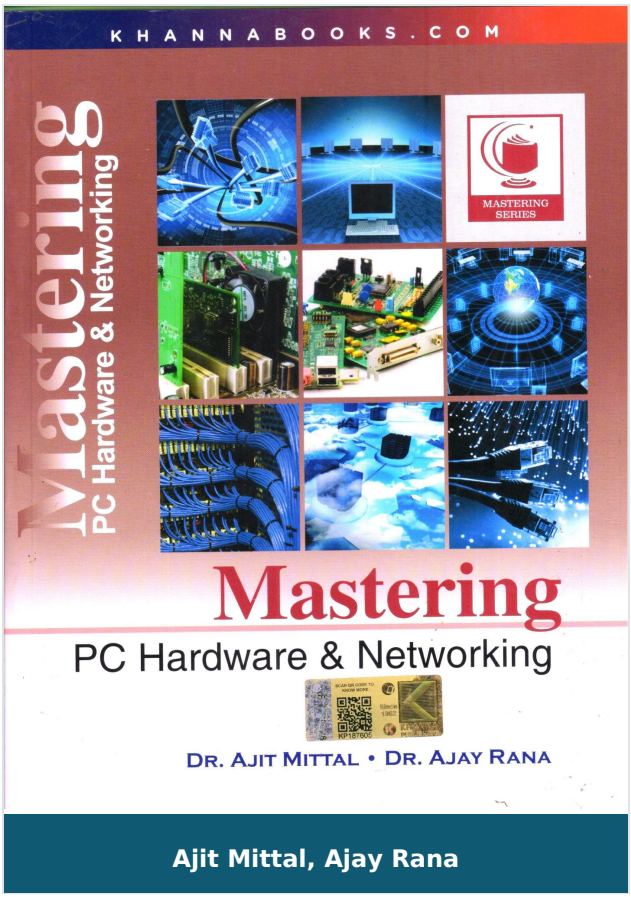

Mastering PC Hardware & Networking

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Product Description

Hardware and networking from the basic cores of the computer knowledge, not only for the users but also for the people who are there to take care of the computer system. They are the ones who would become Hardware Engineers. Networking is another important aspect of the computer system. In fact, it forms the base for internet. In this book various aspects of networking are covered. Starting from various types of topologies, it goes on to trace the security, architecture, connectivity and administration, etc. The book ends up with a chapter on wireless networking.

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- Network Architecture
- Network Connectivity
- Network Administration Security
- Wireless Networking

Author

Ajit Mittal

Dr. Ajit Mittal M. Com. Ph.D. (U.P) MBA (Finance) Professor, Amity International Business School, Amity University , Noida. "

Ajay Rana

Dr. Ajay Rana Professor, Department of Computer Science & Engineering Dean and Director, Amity University 30+ patents under his name in the field of IoT, Network & Sensors 279+ Research publications Co-authored 6 Books Completed 30 Sponsored Research Projects Senior member, Academic Council & Executive Council, Amity University Strong corporate connect

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T. G. Sitharam, Yogi Kochhar, Jasleen Ahluwalia

AIMagineering

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Table Of Contents

- Foreword
- Preface
- About the book
- About the Authors
- Kick off Chronicles
- Disclaimer and Note of Gratitude
- Other Books by the Authors
- AI& UN & The World
- AI & Socio-Economics, Politics a Governance
- AI Teaching & Learning
- AI & Edu. Evolution
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Author

T. G. Sitharam

T. G. Sitharam is a civil engineer, professor at IISc Bangalore, former director at IIT Guwahati. Currently, he is serving as Chairman of the All India Council for Technical Education, (AICTE) from 1 December 2002 onwards. He is known for his works in the fields of rock mechanics, rock engineering geotechnical earthquake engineering. He is an elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

Yogi Kochhar

Yogi Kochhar : - Yogi, an AI FUTURIST, works across sectors in US, UK and India to operationalize AI adoption at scale: his ability to simplify complex ideas and translate them into implementable constructs gives this book its unique clarity and force. Author, Poet Golfer, Trekker. Their collaboration results in a seminal work that charts not just what AI can do, but what it must do; strengthen institutions, empower citizens, and prepare societies for an era of profound transformation.

Jasleen Ahluwalia

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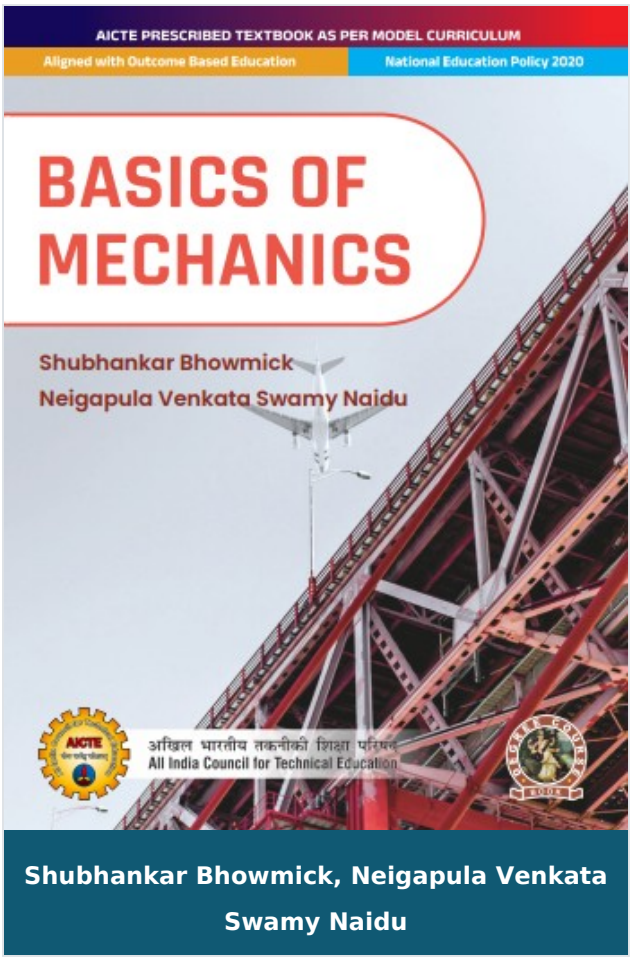

Shubhankar Bhowmick, Neigapula Venkata Swamy Naidu

Basics of Mechanics

Author :	Shubhankar Bhowmick, Neigapula Venkata Swamy Naidu
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Product Description

Basics of Mechanics

“Basics of Mechanics” is a fundamental subject for UG Civil and Mechanical Engineering students, designed to build logical, analytical, and problem-solving skills essential for tackling Mechanics problems. This book presents fundamental concepts in a clear and accessible manner, enriched with numerous figures and visual aids. It thoroughly explains the core principles and includes leading examples that smoothly transition to advanced theories. The main focus is on applying engineering structures to solve real-world engineering challenges. Supplementary information provided to ignite the young minds and motivate in a systematic way.

Salient features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, practical applications etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, and tables 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 at the end of every chapter.

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- Numerous solved and unsolved problems including numerical examples are demonstrated with systematic steps.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines For Teachers
- Guidelines For Students
- List Of Figures
- Units and Vectors
- Kinematics of Rigid Body
- Kinetics of Rigid Body
- Free Body Diagram
- General Motion Beam Reaction, Shear Force and Bending Moment
- Torsion
- Friction
- References for Further Learning
- CO and PO Attainment Table
- Index

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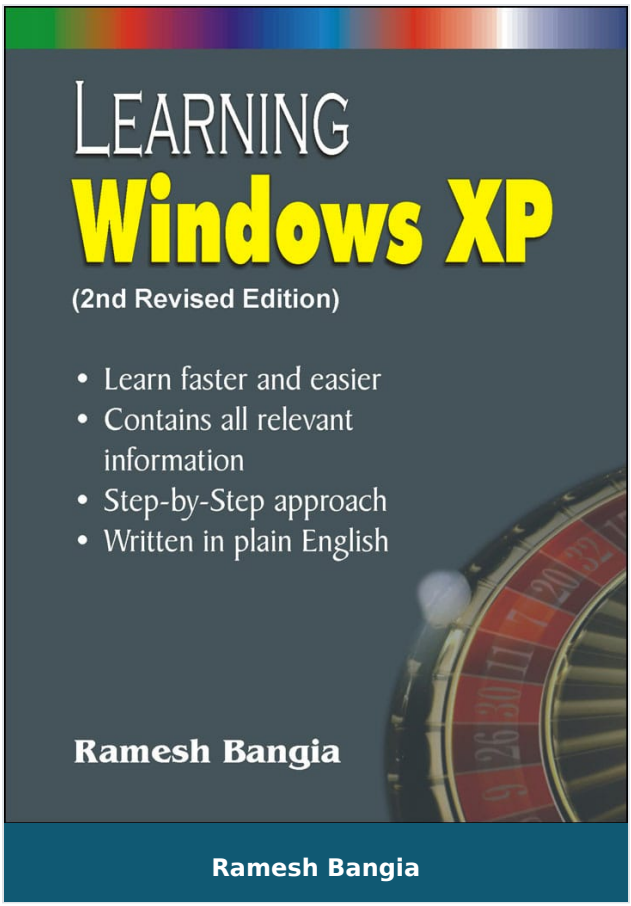

Learning Windows XP

Author :	Ramesh Bangia
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Product Description

Learning of a software is both easy and difficult. It depends up to what level you planning to learn. If you are learning only for the working use, then it is very easy. But, when you try to go deep into it, then you realize how difficult it is to master it. Window XP is such a 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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Table Of Contents

- Introduction to Windows XP
- Exploring Desktop of Windows XP
- Exploring Control Panel of Windows XP
- Accessories of Windows XP
- Networking And Internet
- Configure Your System
- Maintaining The System
- Command Reference
- Keyboard Shortcuts
- Windows Glossary
- Questions

Author

Ramesh Bangia

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

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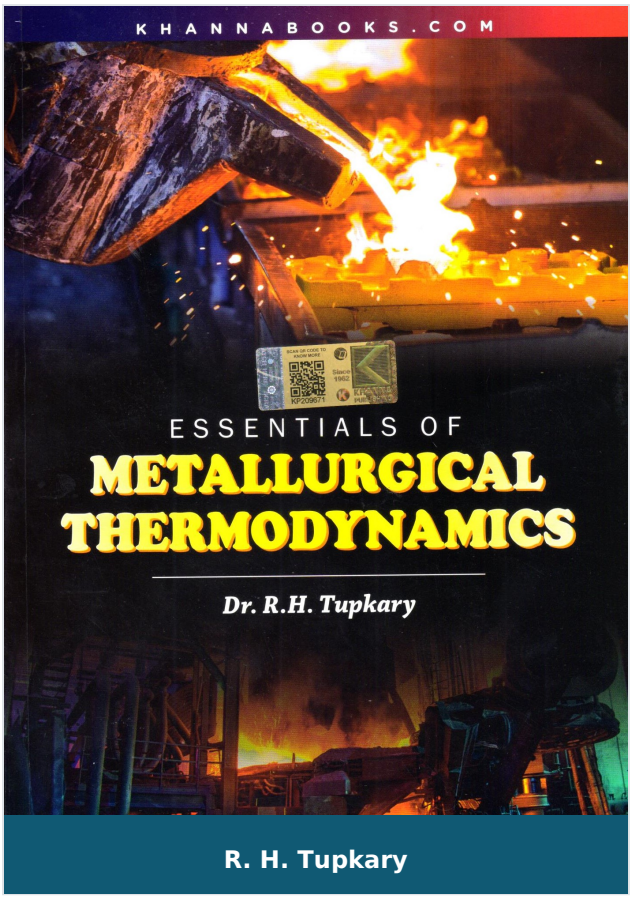

Essentials of Metallurgical Thermodynamics

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Product Description

Thermodynamics is the very basic science to appreciate all engineering disciplines, more particularly the chemical, metallurgical and mechanical engineering in terms of the efficiencies in various related operations that is why metallurgical thermodynamics has been developed specifically to understand the metallurgical engineering processes and their energy efficiencies. Any change is driven by the potential driving it. Thermodynamics is the tool to appreciate that potential and to assess the related energy efficiency. Hence thermodynamics is the basic tool that helps to assess finally the economics of any metallurgical process. The more one understands it the better. The present book attempts to explain the very basic thermodynamic concepts underlying metallurgical engineering operations and therefore the related economics.

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Table Of Contents

- Introduction
- First Law of Thermodynamics
- Second Law of Thermodynamics
- Thermodynamic Potentials
- Third Law of Thermodynamics
- Zeroth Law of Thermodynamics
- Chemical Equilibria
- Phase Equilibria in Single Component System
- Solution I
- Solution II
- Solution III
- Equilibria in Phase Diagrams
- Electrochemical Processes
- Free Energy - Temperature Relationship
- Kinetics of Reactions

Author

R. H. Tupkary

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

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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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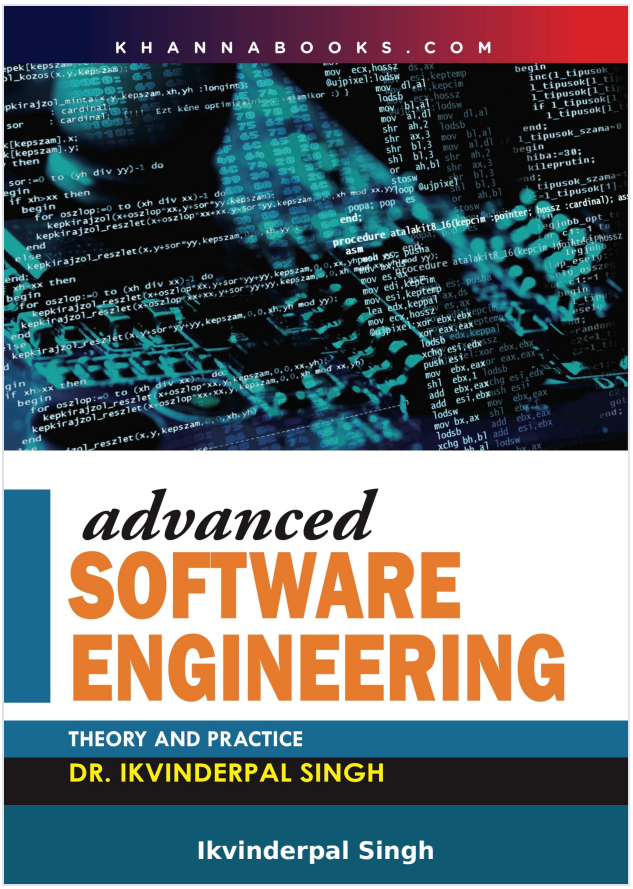

Advanced Software Engineering

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Product Description

Introduction to the software engineering milieu. Describe the software engineering Paradigms. Deals with planning and estimation. Describe the re engineering process. Deals with object oriented metrics. Describes the object-oriented analysis and design. Detailed explanation of software agents.

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Table Of Contents

- Introduction To Software Engineering
- Software Development Process
- Software Project Management
- Risk Analysis & Management
- Software Configuration Management
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- Software Realiability
- Software Economics
- Software Re engineering
- Software Re engineering Process
- Software Reuse
- Object Oriented Metrics
- Object Oriented Analysis & Design
- Element Of An Object-Oriented Model
- Software Agents
- Application Of Software Agents

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,

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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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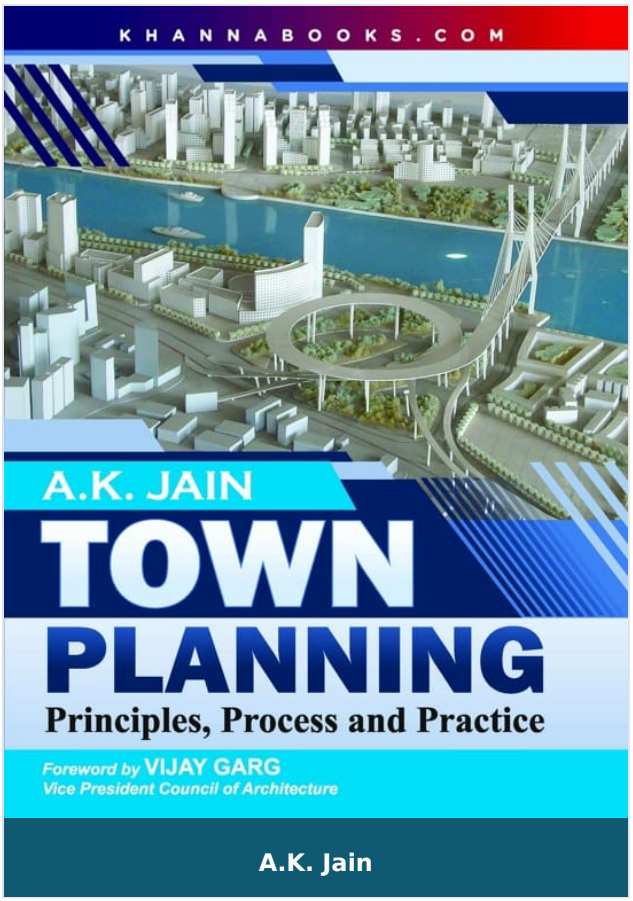

Town Planning

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Product Description

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.

The book 'Town Planning-Principles, Process and Practice' provide a pathway for planned urban development, which aligns with the socio-economic, environmental and technological changes, Written in a simple language with about 380 illustrations, the book is a knowledge bank for the students of planning, architecture and engineering.

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Table Of Contents

- Chapter-1: Introduction: Town Planning and urban Challenges
- Chapter-2: Evolution of Town Planning
- Chapter-3: Town Planning Surveys, mapping and Analysis
- Chapter-4: Towards a New Planning Framework
- Chapter-5: Planning policy and process
- Chapter-6: Town Planning and Social Infrastructure
- Chapter-7: Zoning Regulations Development/Building Controls
- Chapter-8: Infrastructure Development and Management
- Chapter-9: Urban Transport
- 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

Author

A.K. Jain

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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School of Planning and Architecture and other Institutes. He was awarded 2nd Urban Professional Award 2014 at World Urban Forum in Medellin, Colombia in recognition of being an exemplary city changer. Union Minister for Urban Development hourured him with IBC Lifetime Achievement Award (2016).

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