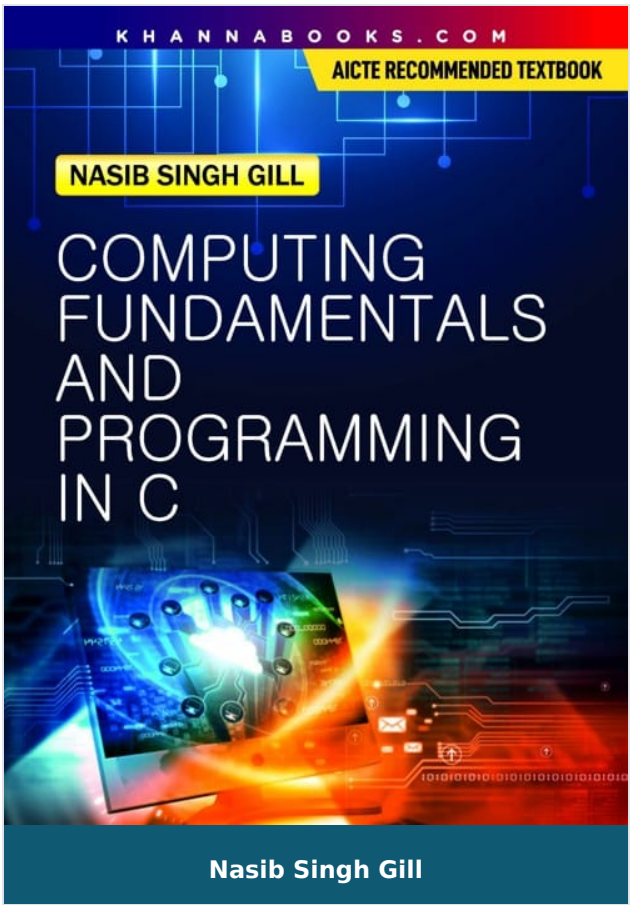

Computing Fundamentals and Programming in C

Author :	Nasib Singh Gill
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Product Description

The complete spectrum of computing fundamentals starting from abc of computer to internet usage has been well covered in simple and readers loving style, The language used in the book is lucid, is easy to understand, and facilities easy grasping of concepts, The chapter have been logically arranged in sequence, The book is written in a reader-friendly manner both the students and the teachers, Most of the contents presented in the book are in the form of bullets, organized sequentially. This form of presentation, rather than in a paragraph form, facilities the reader to view, understand and remember the points better, The explanation is supported by diagrams, pictures and images wherever required, Sufficient exercises have been included for practice in addition to the solved examples in every chapter related to C programming, Concepts of pointers, structures, Union and file management have been extensively detailed to help advance learners, Adequate exercises have been given at the end of the every chapter, Pedagogy followed for sequencing the contents on C programming supported by adequate programming examples is likely to help the reader to become proficient very soon, 200 problems on C programming & their solutions, 250 Additional descriptive questions on C programming.

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Author

Nasib Singh Gill

Dr. Nasib Singh Gill is a high profile and an acknowledge teacher. Dr. Gill obtained his Ph.D. degree in Computer Science in March 1996 under the supervision of a very renowned and an eminent Computer Scientist, Pro-Head, Department of Computer Science & Applications, M.D. University, Rohatak. He is working in Department of Computer Science & Applications, M.D. University, Rohtak since its inception in Feb. 1990. Presently, he is working as Senior Faculty in the department and has more than 10.5 years of teaching experience. His area of research is 'Software Metrics', a sub-area of 'Software engineering' discipline and presently he is orienting himself in the area of 'Information Technology'

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

Artificial Intelligence

Author :	A. Deepa, M.P. Vaishnnave, S. Bangaru Kamatchi
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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
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- AI Applications

Author

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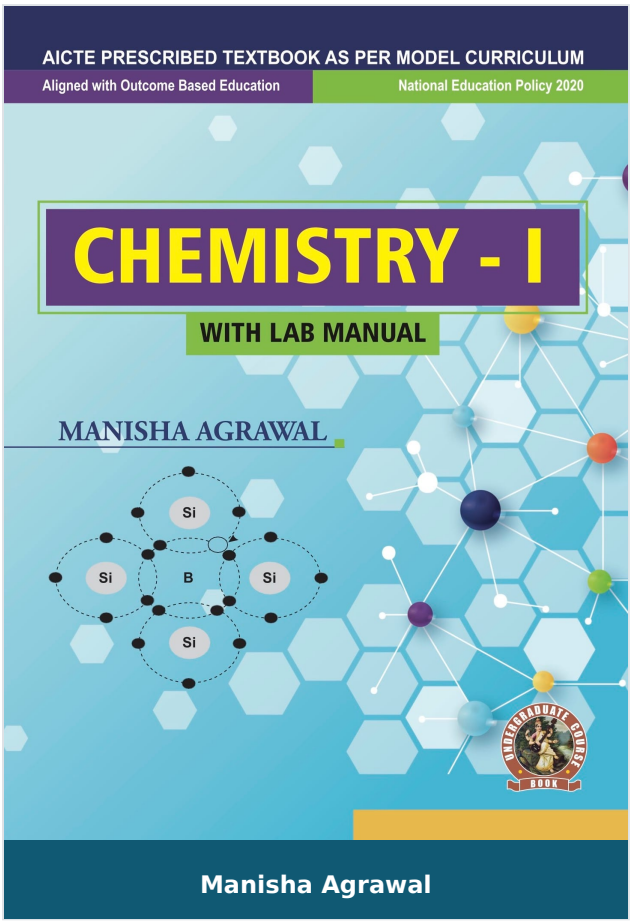

Chemistry I (with Lab Manual)

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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:

Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. Book Provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for us of ICT, Projects group discussion etc. Students and teacher centric subject materials included in book with balanced and chronological manner. Figures, tables, chemical equations and comparative charts are inserted to improve clarity of the topics. 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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- Spectroscopic
- Techniques and Applications
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- Forces and Potential Energy Surfaces
- Use of Free
- Energy in Chemical Equilibria
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- Reactions Synthesis of Drug Molecules
- Annexure
- Appendices

Author

Manisha Agrawal

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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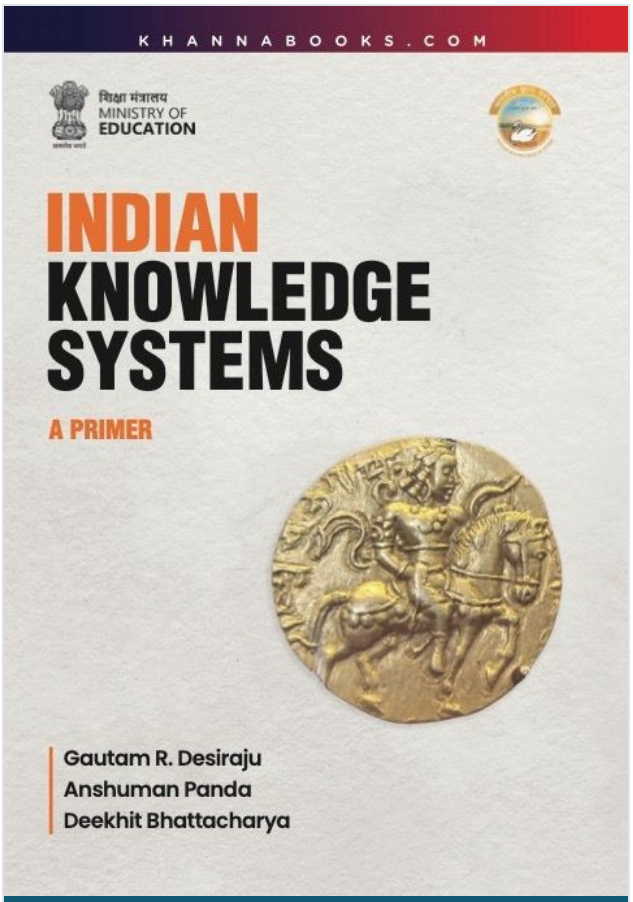

Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya

Indian Knowledge System- A Primer

Author :	Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya
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Product Description

The subject of Indian Knowledge Systems (IKS) has seized the attention of educationists, policy makers and administrators in universities and other teaching institutions. IKS has now entered the mainstream discourse and is the topic of discussion among both students and teachers.

The purpose of this introductory text, Indian Knowledge Systems: A Primer, is to present a perspective of an educational system that propelled our ancient country into a position of unparalleled and largely unrivalled position of economic and military superiority. This book explores how this actually came about, and sadly enough the roots of its decline, because of historical events that the people of this country were able to neither predict nor control.

This book also attempts to show how we can engineer a renaissance in IKS, in a country that is only now seeking its place in a new world order where paradigms of governance, war, and economies that have held sway for over 500 years are being overthrown with bewildering speed. At such a time, we hope that this introductory text will stoke a curiosity among young students who are at the threshold between school and college, and prompt them to ask whether they have it within themselves to be a part of this intellectual renaissance. Invoking Indians from the former generations, we are going to the distant past is, we believe, a worthwhile exercise because we are a part of a continuous civilization that shows little sign of real decline even after 5000 years.

This book is typeset in two vertical columns. The text on the left-hand side is typical curriculum material and may be the subject of quizzes, tests and examinations. The material on the right-hand side is extra, supporting text, that will hopefully enhance the enjoyment of the left-hand side with its illustrations, and the audio and video links. We urge teachers not to consider the right-hand side information as material suitable for tests and examinations, as this was not the intent of introducing the right-hand side

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column.

We trust this book will be of interest to students and teachers and that our perspective on IKS will impel them to seek new avenues towards its study.

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- What is Systems?
- What is IKS?
- Bhartiya Civilizational Reawakening

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Gautam R. Desiraju

Anshuman Panda

Anshuman Panda

Deekhit Bhattacharya

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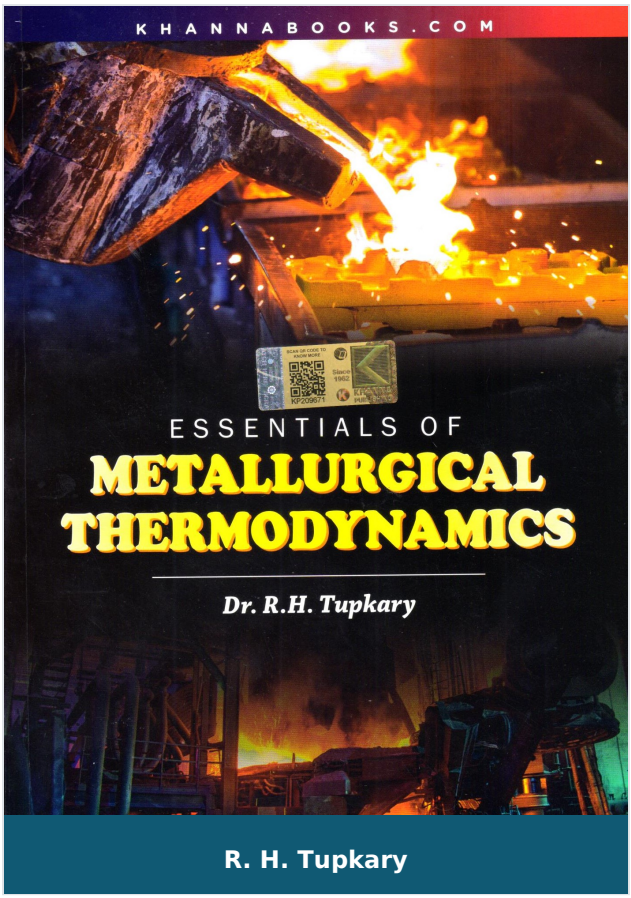

Essentials of Metallurgical Thermodynamics

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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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- 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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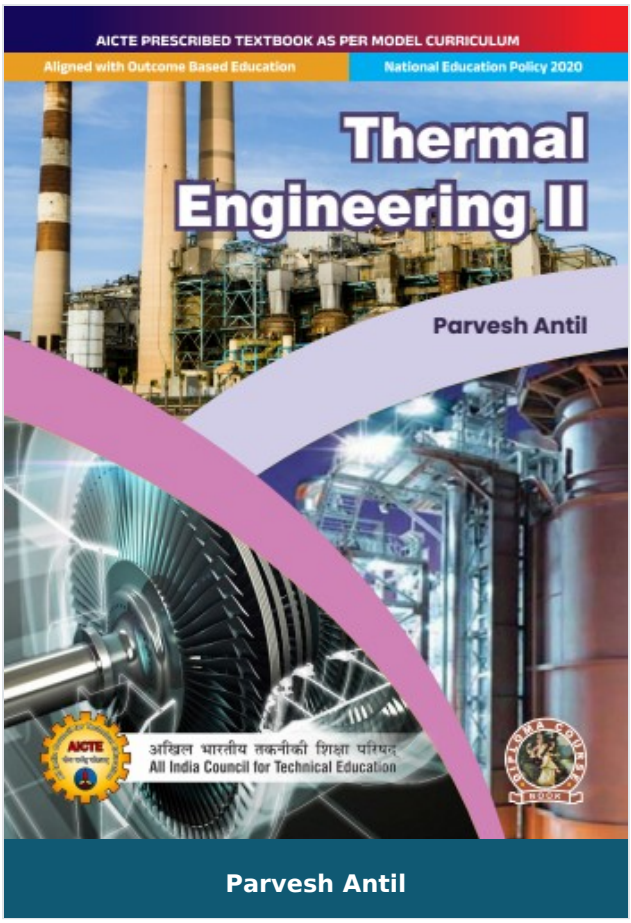

Thermal Engineering- II

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Product Description

Thermal Engineering- II

Thermal Engineering 2 is a fundamental subject for engineering students in the mechanical Engineering domain, providing a foundation for logical and analytical thinking. Thermal systems are crucial for regulating temperatures and facilitating energy transfer in a wide range of applications, including building heating and cooking, power production, and industrial operations. The aim of this book is to familiarize the students with the various thermal systems so that they can thing big and innovative for future energy requirements.

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.

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

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- Steam Turbines
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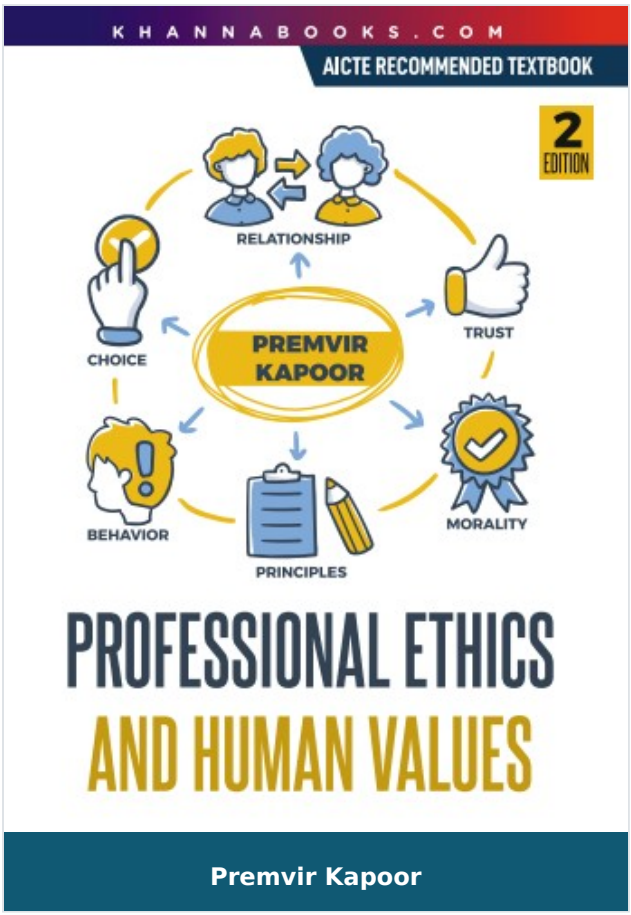

Professional Ethics and Human Values

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Product Description

The book explain the concept of Business Ethics and Human Values in proper Perspective and shall make the readers realise the important of value and ethics in business and provide them a framework to take ethical decisions by following a life of values a person develop certain fine qualities hope honesty, courage, confidence, maturity, helpfulness and achieve aspiration dream by using the right way of thinking and doing.

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- Chapter-7: Value Education
- Chapter-8: Personality and Stress Management
- Chapter-9: Review Questions

Author

Premvir Kapoor

Dr. Premvir Kapoor BBM(BHU), MBA(Podar Institute of Management), LLB Delhi, Ph.D(Meerut University), Diploma in Training and Development, ISTD New Delhi, Diploma in Corporate Laws and Secretarial Practice(Indian Law institute New Delhi). He has worked s Director in Sri Ram Institute of Management and IIMT Institute of Management, Greater Noida and Professor of Human Resource Management at IMS Ghaziabad and Lingaya University Faridabad. He has been associated with some of the leading Institutes of Company Secretaries of India, Institute of Marketing management, Western U.P Productional Council. He is a member of Indian Law Institute, New Delhi. He has been visiting faculty at various prestigious business schools.

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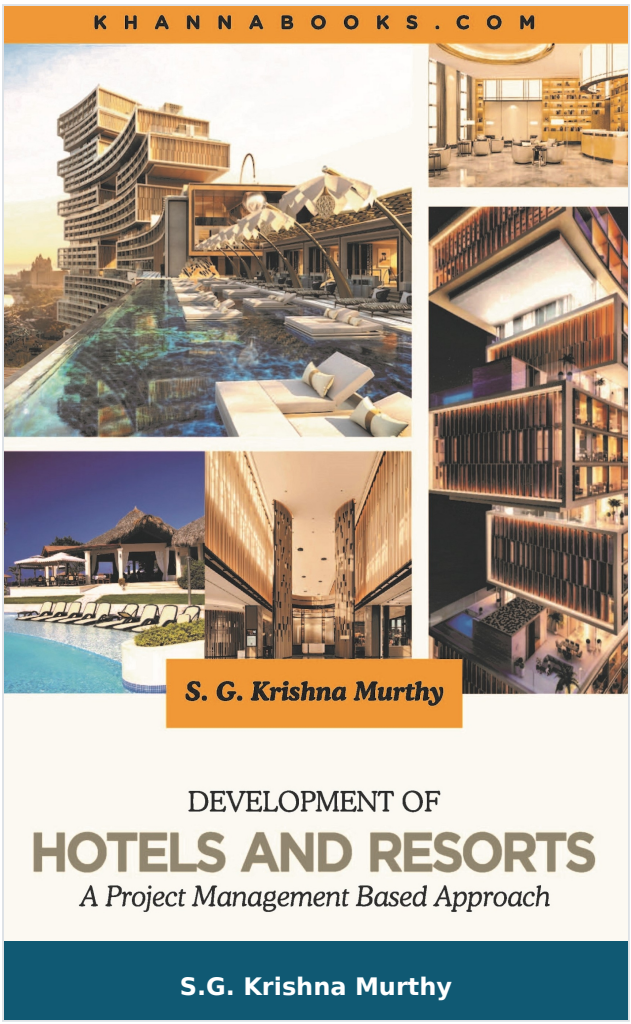

Development of Hotels and Resorts (A Project Management Based Approach)

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Product Description

This book is explores the origin and development of 5-star hotels and resorts, and the project management skills needed for their systematic construction. It describes the roles and responsibilities of various professionals involved in the process, such as the owner, consultant, project coordinator, and design team. It also covers the building automation systems and computer applications that are essential for hotel management. Moreover, it explains the project management principles for construction management in detail.

The book also addresses the impact of COVID-19 on the global economy and the risks and precautions associated with it in the hospitality industry. It discusses, in detail the future opportunities for developing resorts along India’s long coastline. The author, a civil engineer and a consultant with over 40 years of experience in the industry, hopes that this book will be useful for consultants, civil engineering and MBA student, University teachers, and aspiring hotel and resort developers. Shri S G Krishna Murthy has had a splendid professional journey. His life philosophy and meticulous handling of project and the message he wants to give young engineers have all been encapsulated in his book.

I am sure the book will be very useful to project engineers and those involved in hotel projects.

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- Duties of FF&E (Future Fittings & Equipment) Manager and Concerned Staff
- Risks with COVID-19 and Corrections
- Scope for hotels & Resorts in India

Author

S.G. Krishna Murthy

This book is explores the origin and development of 5-star hotels and resorts, and the project management skills needed for their systematic construction. It describes the roles and responsibilities of various professionals involved in the process, such as the owner, consultant, project coordinator, and design team. It also covers the building automation systems and computer applications that are essential for hotel management. Moreover, it explains the project management principles for construction management in detail. The book also addresses the impact of COVID-19 on the global economy and the risks and

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precautions associated with it in the hospitality industry. It discusses, in detail the future opportunities for developing resorts along India’s long coastline. The author, a civil engineer and a consultant with over 40 years of experience in the industry, hopes that this book will be useful for consultants, civil engineering and MBA student, University teachers, and aspiring hotel and resort developers. Shri S G Krishna Murthy has had a splendid professional journey. His life philosophy and meticulous handling of project and the message he wants to give young engineers have all been encapsulated in his book I am sure the book will be very useful to project engineers and those involved in hotel projects.

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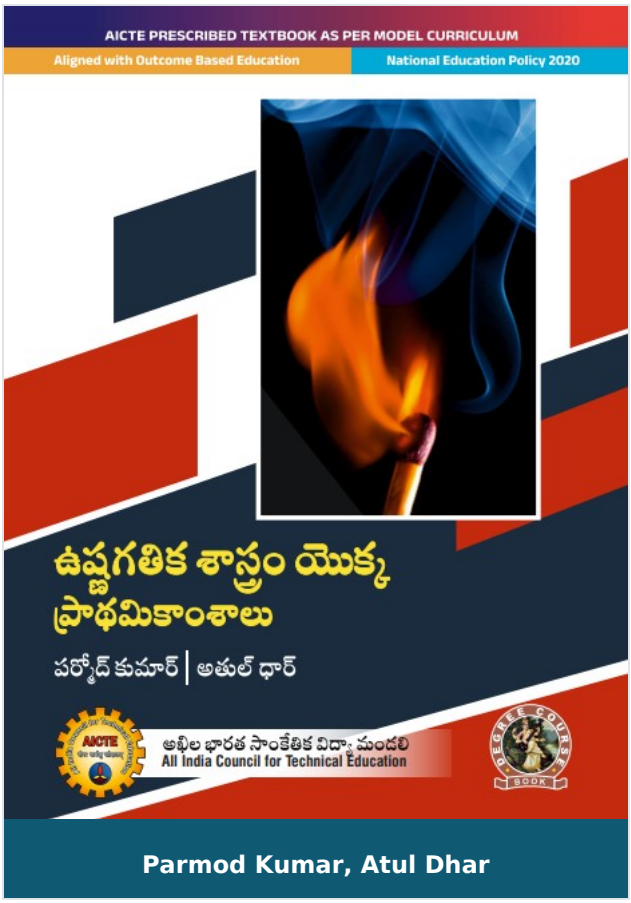

Basics of Thermodynamics

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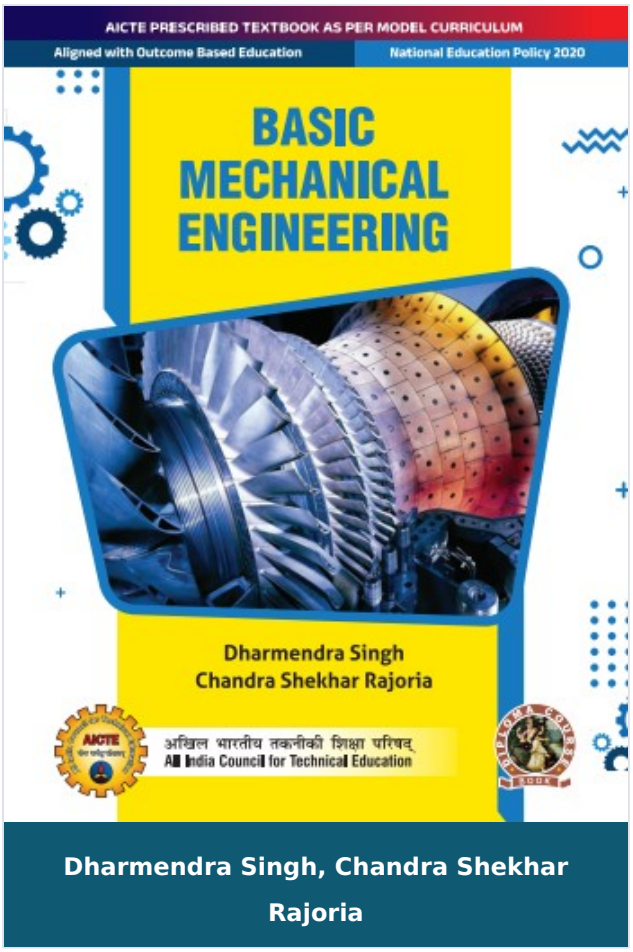

Basic Mechanical Engineering

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Product Description

Basic Mechanical Engineering

This book familiarizes the students with different domains of Mechanical Engineering. It provides an exposure of basic science to the engineering students, the fundamentals of Mechanical Engineering systems as well as enables them to get and insight of the subject. The book covers the basic thermodynamic principles including heat transfer, thermal power plant systems, steam turbines, condensers, cooking towers, internal combustion engines and refrigeration. It also covers the basics of material science, manufacturing process, machine tools and their mechanisms with their application in engineering problems. The main content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per the National Education Policy (NEP) 2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.

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- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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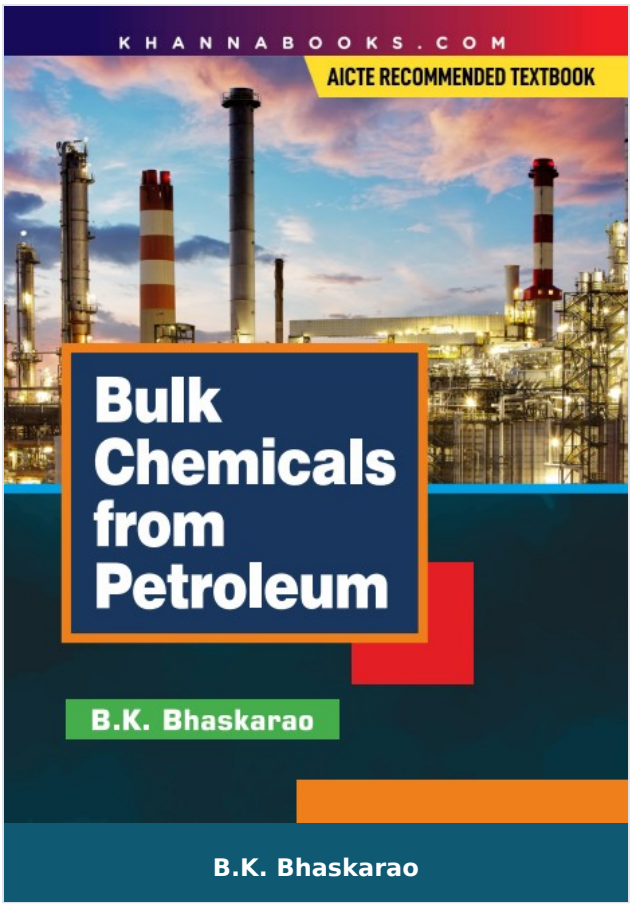

Bulk Chemicals from Petroleum

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Product Description

This book covers petrochemical industry feedstocks, chemicals derived from C1, C2, C3, C4 & higher hydrocarbon atoms, synthesis gas & chemicals and petroleum aromatics. Besides, it contains comprehensive information pertaining to polymers which include plastics, synthetic fibers & elastomers and synthetic detergents. This book will serve as as reference material for the student, teachers and practicing engineers in th field of chemical, petroleum and petrochemical engineering.

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- Chapter-9: Synthetic Rubber
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- Chapter-13: Pollution and Toxicity

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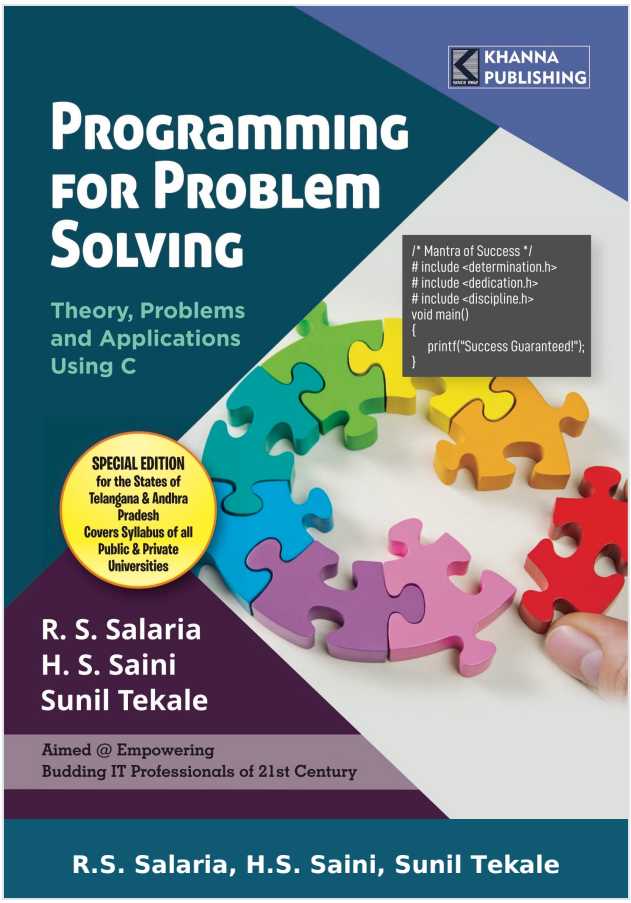

Programming for Problem Solving

Author :	R.S. Salaria, H.S. Saini, Sunil Tekale
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Product Description

This book is specially conceived with an aim to serve not only as a textbook to cover the syllabus of public & public universities, rather a intelligent book (i-book) that empowers readers to acquire 21st century problem solving skills and sharp coding skills.

Therefore, keeping in mind the requirements of 21st Century, a special emphasis is laid on the following aspects:

Designed keeping in mind the objectives of OUTCOME BASED EDUCTION.

Simple and lucid language that language that enables even an average reader to grasp the fundamental concepts of the subject.

Illustrative examples (165+ in number) ti demonstrate the application of the concepts.

Multiple Choice questions (225+ in number) to provide an opportunity for self-assessment of the fundamental concepts learned.

Short-answer type questions (192+ in number) to provide an opportunity to synthesize the fundamental concepts learned to answer precisely.

Programming exercises (112+ in number) to provide an opportunity to harness their coding skills.

Coding problems (42+ in number) from the IT/IT-enabled industry perspective to conquer the screening phase of the placement process.

Frequently asked questions (43 in number) to conquer the technical round of the CAMPUS PLACEMENT PROCESS with flying colors.

The whole content is designed and organized as per the BLOOM'S TAXONOMY.

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- Operator and Expressions
- Console Input/Output
- Decision Making and Branching
- Decision Making and Looping
- User-Defined Functions
- Arrays and Strings
- User-Defined Data Types: Structure, Union & Enumeration
- Pointers & Dynamic Memory Management
- File Handling
- Preprocessor Directives
- Introduction to Algorithms
- Appendix A : Answers of MCQs
- Appendix B : FAQs for Oral Examination
- Appendix C: Solution of Selected Programming Exercises

Author

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H.S. Saini

Prof. H.S. Saini Professor, Computer Science & Engineering Managing Director, Guru Nanak Group of Institutes, Hyderabad Taught at University of Westminster and Oxford Brookes University, UK Founder and Chief Editor of Journal of Innovation in CS/ECE/IT Recipient of Eminent Academia Award from Indus Foundation Mentored half a dozen startups in the state of Telangana Key member on the panel of NBA & NAAC expert committees Expert in the field of Fuzzy Systems, AI, Knowledge Based Systems and Web Technologies Established Industry-Academia Collaborations, Foreign University Collaborations and Centers of Excellence in Cutting Edge Technologies

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