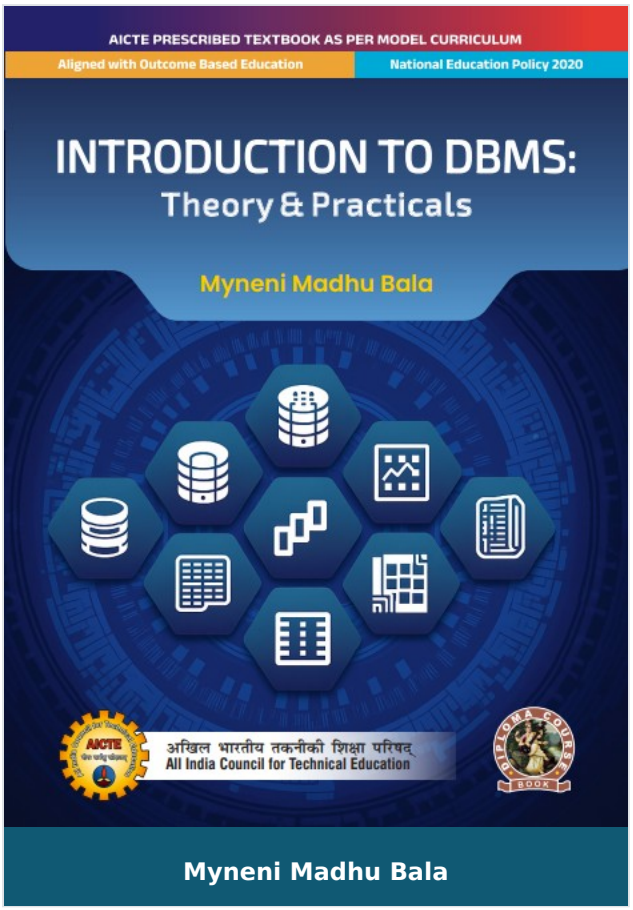


Introduction to DBMS: Theory & Practicals

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Product Description

Introduction to DBMS: Theory & Practicals

Databases are an important branch of computer science that essentially deals with information and data and their effect on information retrieval and decision-making. Due to modern civilization, database, systems play a significant role in all our daily activities by purchases through e-commerce sites like flipkart and amazon, and reservation of booking of hotel, rail, bus, or airline.

The focus of this book is the foundation of database operations along with orientation on daily activities linked with DB queries and case studies on real-time applications. Undoubtedly, this book stimulates ideas for using database queries to examine how a system operates and helps in making decisions.

Features included are:

- Outcome of each unit mentioned and mapped with course outcomes, which is in line with content.
- Provides extended and e-learning resources through web links and QR codes.
- Assessment methods and related sample questions at all levels are provided at the end of each unit.
- Case studies with real-time applications are discussed
- Open-source software (MySQL) and further learning material are provided for learning and practice online.

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Author

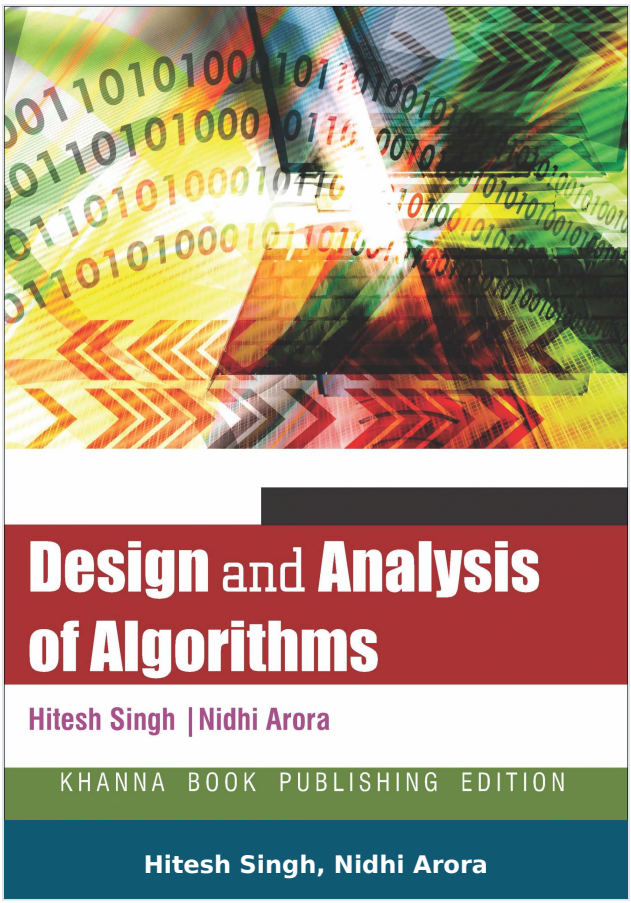
Myneni Madhu Bala

Dr. Myneni Madhu Bala Professor, Department of Computer Science Engineering, Institute of Aeronautical Engineering , Telangana

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Design and Analysis of Algorithms

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Product Description

The focus of this book is on how to design good algorithms and how to analyze their efficiency. Various methods/ideas are explained with the help of examples which helps in developing fast and efficient algorithms. This book will also provide the correctness of algorithms and analyzing the algorithms. At the end of the chapters it chapters it has questions both solved and unsolved which has come in various Indian universities.

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- B-Tree
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- Directed Acyclic Graphs
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- Matrix Operation
- Backtracting
- Model Questions
- End-Term Examination

Author

Hitesh Singh

Hitesh Singh Hitesh Singh has done M.Tech from C-DAC, Noida, in CSE. His research area are information security, Steganography, Algorithms and Software Engineering.

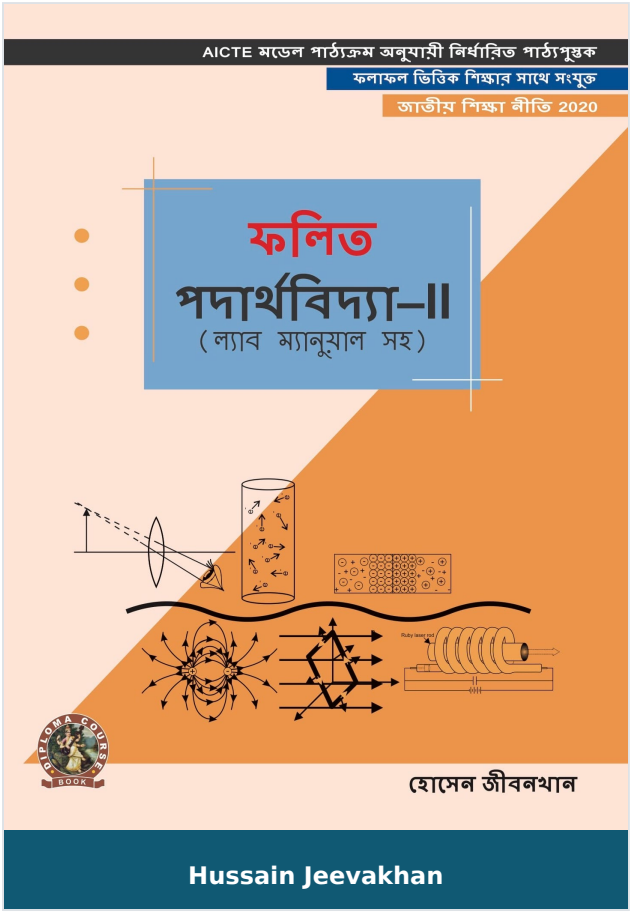
Nidhi Arora

Dr. Nidhi Arora is MBA, MCA and doctorate in Computer Science. She is an author of various books and also published research papers in reputed generals.

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Applied Physics II (with Lab Manual)

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Product Description

“Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE).

Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning.

Some salient features of the book:

1. Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes.

2. Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit.

3. Content presented in book in chronological way.

4. Figures, tables and equations are given to improve clarity of the topics.

5. Solved examples are given with systematic steps.

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- Current Electricity
- Electromagnetism
- Semiconductor physics
- Modern physics
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Author

Hussain Jeevakhan

Hussain Jeevakhan-789391505578(DIP126EN) “Applied Physics-ll” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE). Book covers seven topics- Wave

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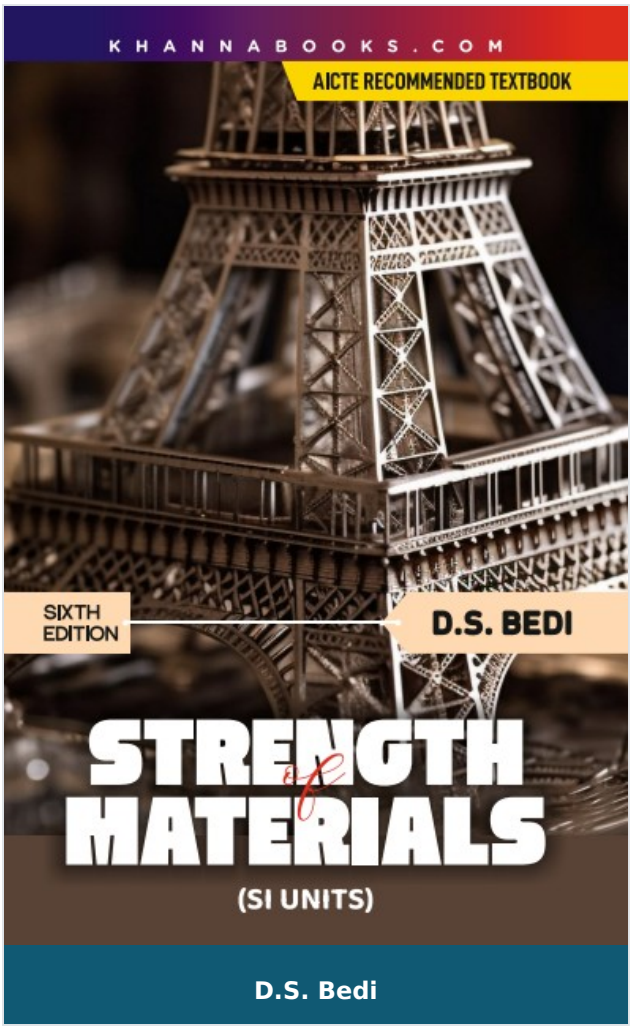
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Product Description

The sixth edition of the book has thoroughly been modified and enlarged to meet the revised syllabi of many universities and other professional examination like AMIE and above all to incorporate the suggestions received from the students and faculty a like. Additional problems on two-dimensional complex stress systems have been fully solved by both analytical and Mohr's circlem method so that the readers are made aware of the face that the sign shear stress on a particular plane has its one important role to play so as arrive at the correct result which otherwise is normally overlooked or even sometimes neglected. The term " bending Moment" and "twisting Moment" have been introduced as vector quantities in order to bring out the difference between them so that the reader can easily decipher each of them and proceed ahead to accomplish the associated objectives. The chapter on Thick Cylinders had been re-written to keep uniformity in sign convention of the stresses throughout the entire text. Further in this chapter the process of auto frettage of a thick cylinder has been introduced along with the "Simplified" theory of this process. The author has endeavored to familiarize the readers with the "Yield point phenomenon of low carbon steel". "quantitative definitions of ductility and malleability" and "Negative Possions Ratio" Which were hitherto not dealt with in most of the text on the subject. On the specific demand of the students almost all the chapter have been supplemented with objective type questions along with more number of worked examples.

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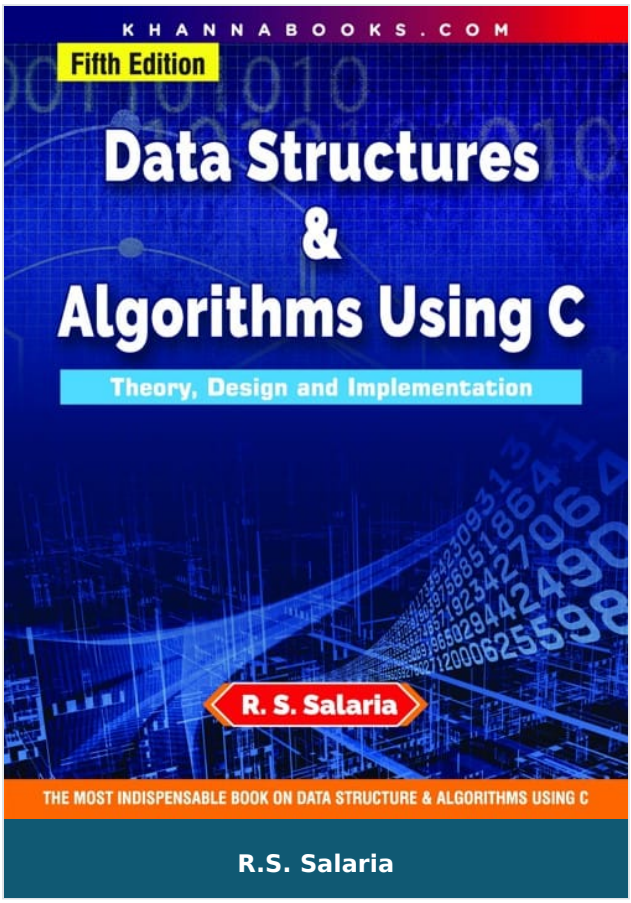
D.S. Bedi

Dr. D.S. Bedi is one of the distinguished writers in India. He possesses a very excellent academic background. He had held various high positions viz. formerly Professor Emeritus at Department of Mechanical Engineering, Institute of Engineering and Technology (Punjab); Professor & Head, Dept. of Mechanical Engineering,Thapar Institute of Engineering & Technology (Punjab); Visiting Professor at Wayne State University, Detroit, MI (USA); Principal, Baba Banda Singh Bahadur Engineering College, (Punjab); Advisor-cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab.

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Data Structures & Algorithms using C

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Product Description

Provides a comprehensive coverage of the subject, Includes numerous illustrative examples, Demonstrate the development of algorithms in a lucid manner, Demonstrate the implementation of algorithms in a good programming style, Provides challenging programming exercise to test your knowledge gained about the subject, Glossary of terms for ready reference.

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Author

R.S. Salaria

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for

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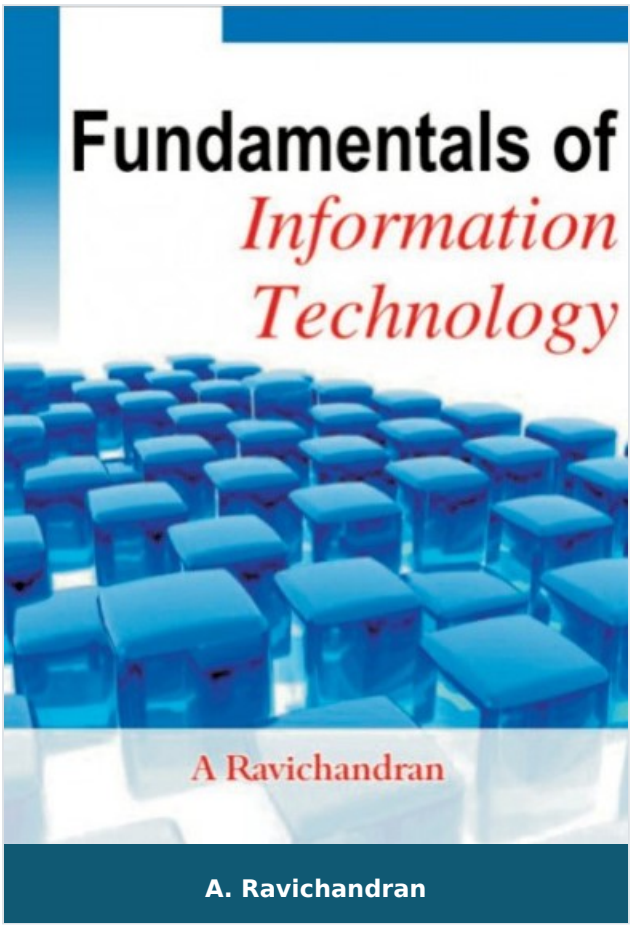
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A. Ravichandran

Fundamentals of Information Technology

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Product Description

This book Covers all the important aspects of computers, their growth, usage and abilities. Each topic has has fully covered to explain their developments and future usage. This book would serve the base for the learning process for all the students of computers and information technology. Starting with students of schools, to colleges, to the universities, or whosoever who wants to have more information about the subject. 20th century has seen the development of information technology to the fullest. This field is changing at such a fast speed that it becomes impossible to keep track of the developments taking place throughout the world. This book in one of the such book which keeps you informed about the development which has taken place and are now on the verge of capturing the market, specially, mobile computing, Geo Information system, knowledge database system, etc.

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- Use of Computers in various Industries
- Introduction to Tally 9.0

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A. Ravichandran

A. Ravichandran He has obtained M.Tech degree in Computer Science & Engineering from IIT. Delhi and Ph.D degree in Computer Science and Engineering from IIT Kanpur. He has been in teaching field since 1983 and now currently guiding: research work on Image processing, Computer vision and Computer Graphics. He has also published 22 technical/research papers in National and International. He is an Sun certified programmer as well as Sun certified trainer by Sun Microsystems.

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Applied Chemistry (with Lab Manual)

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Product Description

This textbook o “Applied Chemistry” is development as per AICTE model curriculum ,2018, for compulsory course on Applied Chemistry of first years Diploma Programming in Engineering and Technology. Atomic Structure, Chemical Bonding & Solution, Water, Engineering Materials, Chemistry of fuels & Lubricants and Electrochemistry are the five units of this book, comprising of both practical and theory.

Some salient features of the book:

1. Course Outcomes and Unit Outcomes are written specifically and are mapped with programming Outcomes.
2. Utmost care have been taken to amalgamate the philosophy of outcome-based education.
3. The structure of the textbook is comprehensive, where in practical exercises are integral part of each unit.
4. The text is presented in a very simple way with illustrations, examples, tables, flow chart, self -assessment questions and their solutions.
5. Micro projects, points/issue for the creative inquisitiveness & curiosity, know more, video links, case study and summary points are integral part of each unit to facilitate the students to develop the attitude of scientific inquiry, investigate the cause-and-effect relationship, systematic, scientific & logical thinking, ability to observe, analysis and interpret.
6. To meet the requirement of outcome-based education (OBE) and outcome-based assessment (OBA), criterion referenced testing (CRT) have been used as an integral part of assessment in each practical.
7. Sample QR codes have been provided in each unit on some topics/subtopics for supplementary reading and reinforcing the learning.

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- Electro Chemistry.

Author

Anju Rawlley

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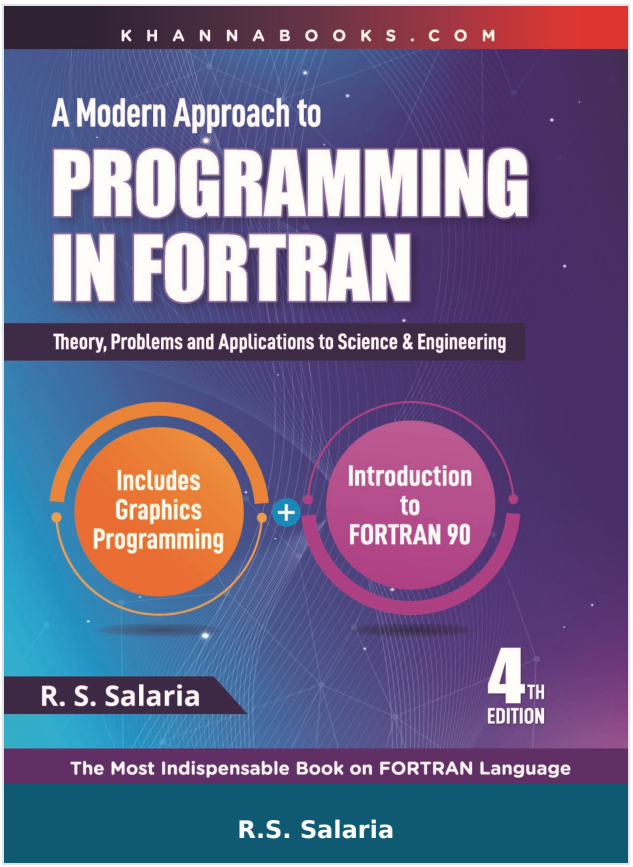
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A Modern Approach to Programming in Fortran

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Product Description

This book providers a comprehensive account of the Microsoft FORTRAN 77 version 5x. It is designed to serve as a textbook for those learning the language and also as a complete reference guide for the user of FORTRAN. Introduces computers in a very simple and attractive style. illustrates the importance of problem solving and program design, illustrates the usage of various program design tools, Provides numerous programming examples, Explains graphic capabilities of the language at a greater length, Introduces FORTRAN 90. Provides ready to run programs for numerical and statistical methods.

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- Control Flow Statements
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- Functions & Subroutines
- Handling Data Files
- Working with Graphics
- Introduction to FORTRAN 90
- Selected Programs for Numerical Methods
- Selected Programs for Statistical Methods

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

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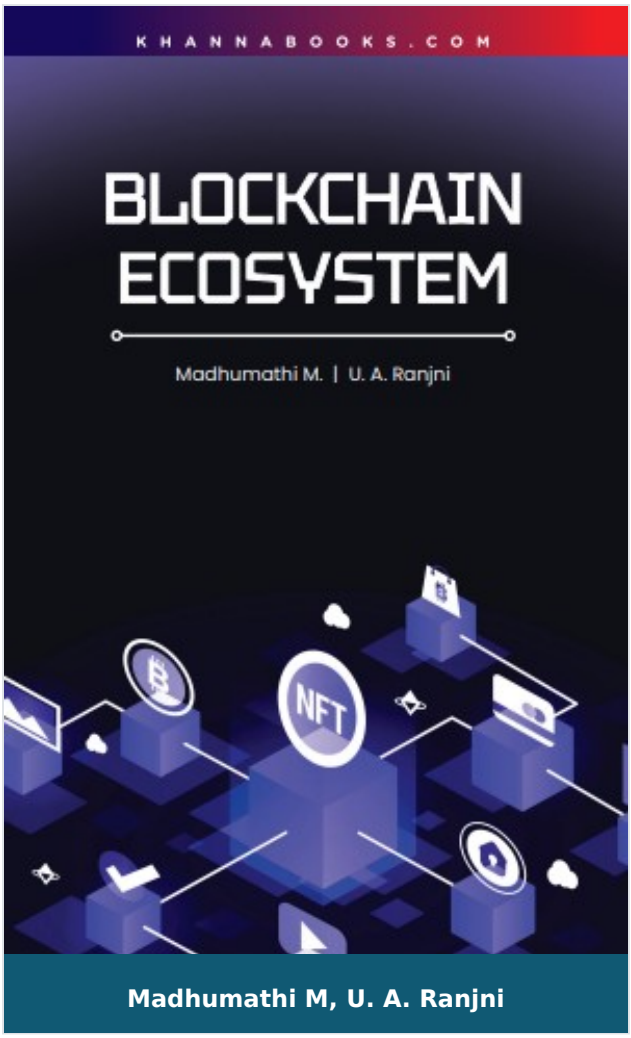
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Blockchain Ecosystem

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Product Description

Blockchain Ecosystem

BLOCKCHAIN ECOSYSTEM is a comprehensive and essential guide to the transformative technology underpinning the decentralized digital future. This book explores blockchain not just as a technology for secure, transparent, and immutable record-keeping, but as a foundational innovation reshaping entire industries, from finance and supply chains to healthcare and governance. It introduces readers to a new paradigm of trust and value exchange that operates without reliance on central authorities or intermediaries.

Authored with clarity and academic rigor, the text systematically breaks down the intricate and interconnected nature of the blockchain ecosystem. It begins by establishing the fundamental network architecture, contrasting it with conventional distributed databases, and delves into the mechanics of key consensus algorithms like Proof-of-Work (PoW) and Proof-of-Stake (PoS). The book then traces the evolution of the technology across Blockchain 1.0, 2.0, and 3.0, illustrating the shift from basic digital currency to complex decentralized applications (dApps) and enterprise-grade scalability solutions.

Crucially, this guide provides practical, hands-on knowledge, including a deep dive into Smart Contracts using Solidity, detailing their lifecycle, creation, and deployment, alongside frontend connection methods. It also critically examines the significant security risks (e.g., Reentrancy, 51% attacks) and performance challenges (e.g., scalability, interoperability) inherent in blockchain deployment.

Whether you are a student seeking foundational knowledge, an entrepreneur building the next decentralized application, a developer aiming for secure Solidity implementation, or a policymaker navigating regulatory complexities, this book is an indispensable resource for understanding the complexities, opportunities, and future directions of the blockchain revolution.

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Salient Features:

- **Core Network Fundamentals:** Presents a detailed comparison of blockchain with conventional distributed databases, explaining fundamental principles like decentralization, immutability, security, and cryptographic hashing.
- **Mechanism Comparison**: In-depth coverage of various consensus models, detailing the trade-offs between energy-intensive Proof-of-Work (PoW) and the more sustainable Proof-of-Stake (PoS) and BFT protocols.
- **Blockchain Generation Study**: Systematically analyzes the evolution from Blockchain 1.0 (Digital Currency) to 2.0 (Smart Contracts/dApps), concluding with 3.0 (Scalability/Interoperability) and enterprise-grade solutions.
- **Practical Smart Contracts**: Provides step-by-step guidance on writing, deploying, and connecting decentralized applications (Dapps) to a frontend using Solidity, Hardhat, and Next.js.
- **Security Risks Analysis**: Dedicated chapters dissect major security issues, including the 51% Attack, smart contract vulnerabilities (like Reentrancy), Sybil attacks, and common EVM bytecode flaws.
- **Solidity Code Vulnerabilities**: Highlights programming pitfalls specific to the Ethereum development language Solidity, such as gas optimization issues, access control flaws, and the challenges of contract upgradability.
- **Advanced Scalability Solutions**: Explores techniques to overcome network performance limitations like low TPS and high fees, focusing on Sharding, Sidechains, Off-Chain State Channels, and concurrent transaction processing.
- I**ndustry 4.0 Applications**: Details the promising real-world application of blockchain in Industry 4.0 (M2M communication) and Health 4.0, discussing both opportunities and inherent integration challenges.

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- Smart contracts
- Performance related issues
- Challenges in Blockchain

Author

Madhumathi M

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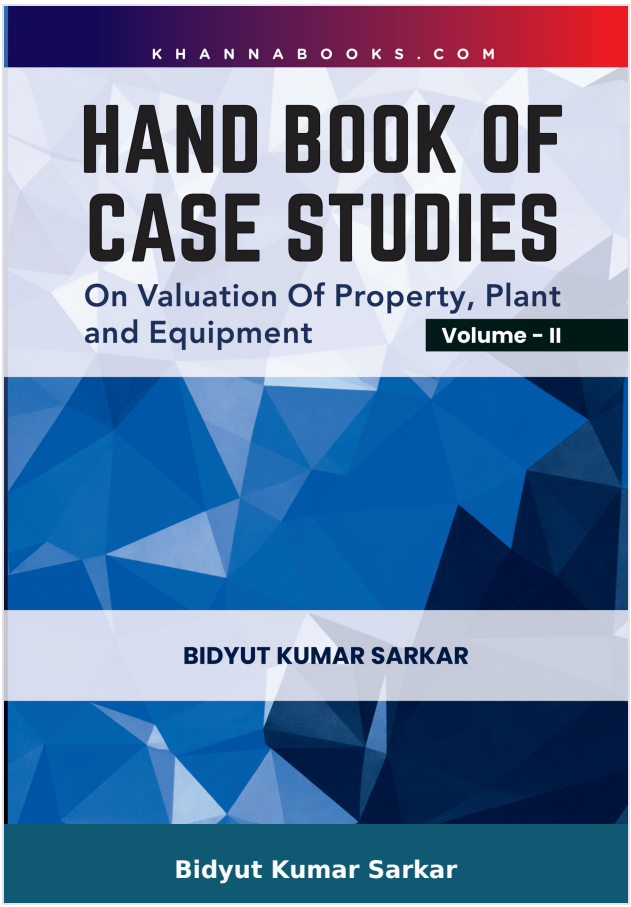
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Handbook Of Case Studies (On Valuation of Property, Plant and Equipment), Volume-2

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Product Description

Handbook Of Case Studies (On Valuation of Property, Plant and Equipment), Volume-II

“Hand book of Case Studies: On Valuation of Property, and Equipment (Volume – II)” offers a comprehensive and practical guide for students and professionals aiming to develop expertise in valuation report writing within the field of PPE. Drawing on real-world examples and detailed case studies, the book effectively bridges the gap between valuation theory and practical application, making it an essential resource for practicing valuers. Valuation is a critical skill across many industries, yet the practical aspects of report writing are often underrepresented in traditional education.

This book addresses that gap by providing structured guidance on preparing accurate and reliable valuation reports. It covers key areas such as data collection, analysis of market conditions, valuation methodologies, and adherence to professional standards, with a strong focus on mortgage valuation scenarios. Through its case studies, the book demonstrates how professional judgement, supported by technical knowledge, leads to objective and defensible valuations.

The book also emphasizes the importance of understanding the context of valuation, including the expectations of investors, property owners, and businesses, as well as evolving market conditions. It highlights the role of the valuer as an intermediary who connects clients with market realities and provides insights that support informed financial decision-making. Written in a clear and accessible style, Hand book of Case studies: On Valuation of property, Plant, and Equipment serves both as professional seeking to enhance their skills in property and asset valuation.

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- State Trading Corporation of Bhutan Ltd.

Author

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Bidyut Kumar Sarkar , is a former Scientific Offers/Engineering of the Department of Atomic Energy, Govt of India, Mumbai. He is a Chartered Engineer & a Fellow of the Institution of Engineering (India), Institution of Valuers (India), a Member of American Society of Appraisers (USA), A Regd Valuer under section 34 AB of the income tax & Wealth Tax Act 1957, Govt of India. He has been serving last 40 years as a consultant to Govt/Semi Govt/PSU/Corporate clients Spread over India, Bhutan, Nepal, and beyond

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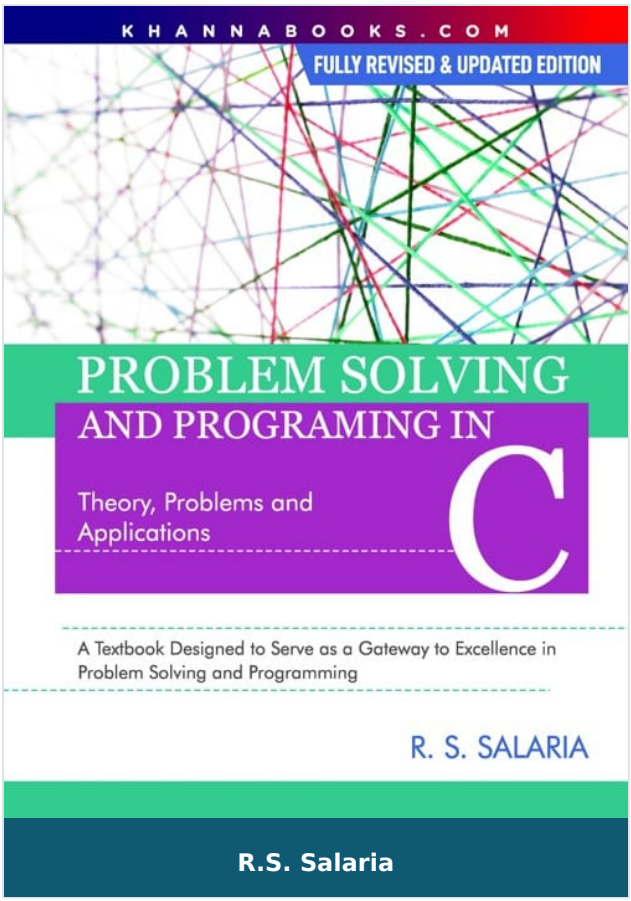
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which enables him to have a large tapestry of In-depth experience of valuation of tangible & intangible assets involving diverse industries viz, large and medium Hydropower plants, steel plants, steel plants, ferro Silicon and Ferro alloys plants, Ferro Silicon Magnesium plants, Mines & mineral industries. Cement, Chemical & Other Continuous Process Industries, Distilleries, Cigarette manufacturing and Readymade textile plants, wood Based Industries, Rigid PVC Pipes & Films manufacturing plants, food & Milk Processing industries, Real Properties, Five-star hotel (le' Meridien, Thimphu), Tea processing plants & plantation, large automatic particle board and gyp board plants, large residential complexes etc. and boundless creativity by navigating vibrant terrain and cultural nuances of people and places, real and surreal. He did publish a paper on Nuclear Instrumentation & process Control at a National Seminar Organized by BARC, Trombay, Mumbai and a number of books of poems in English.

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Problem Solving and Programming in C

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Product Description

The subject of Programming in C is an integral part of curriculum of all universities and institutes offering undergraduate and postgraduate and program in Computer Science and Information Technology leading to the degree of BE/B Tech, BSc(IT), BCA, MSc(IT), MSc(CS) and MCA.

This book is designed to serve as a textbook for the students taking these program of study. The book lays more emphasis on developing the skill of problem solving and program design, which are pre-requisites to programming.

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Author

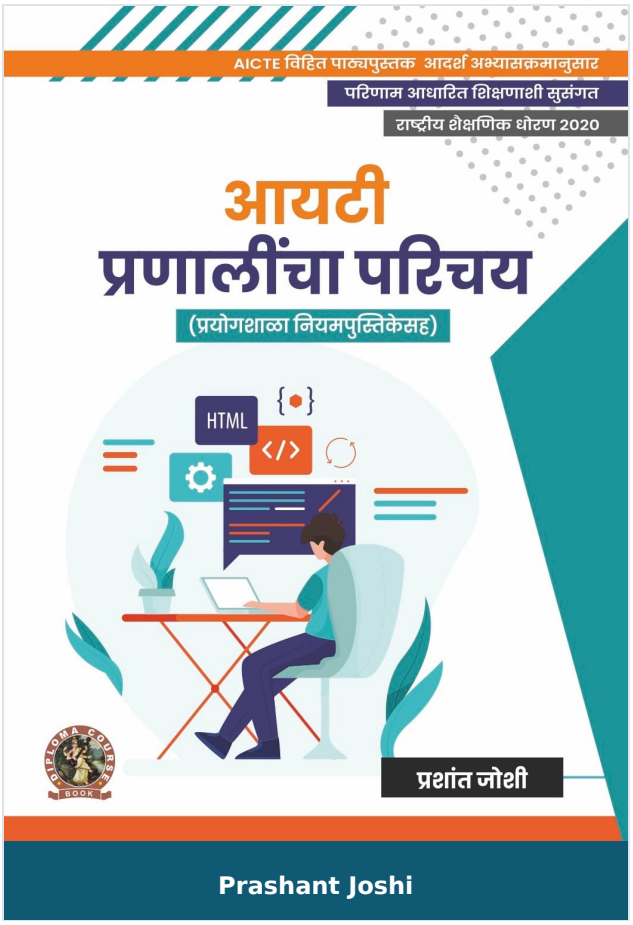
R.S. Salaria

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

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Introduction to IT Systems (with Lab Manual)

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Product Description

“INTRODUCTION TO SYSTEMS” is a compulsory paper for the first year Diploma 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 five units- Internet Skills and Computer Basics, Operating Systems, HTML and CSS, open Office Tools. And information Security Best Practices. Each topic in units is written in each and lucid manner. Every unit contains a set of exercise at the end of each unit to test student’s comprehension.

Some salient features of the book:

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

2. Practical are included with each unit for better understanding of the theoretical concepts.

3. Book Provides interesting facts and various activities pertaining to topic. QR Codes are used for additional E-resources, use of ICT, online code editors, online quiz etc.

4. Student and teacher centric subject materials included in balanced and chronological manner.

5. Figures, tables, source code for web programming, numerous examples and applications are included to improve clarity of the topics.

6. Objective questions, subjective questions and crossword exercise are given for practice of students after every chapter.

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