



Engineering Workshop Practice

Author :	A. K. Sarathe
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Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

“ Engineering Workshop Practice Manual” is a common paper for the first year Diploma 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.

Engineering Workshop Practice manual covers five units- First unit deals with the carpentry, second unit is about fitting , third unit focuses on welding, fourth units discusses about sheet metal working and the fifth unit deals with electrical house wiring . The manual comprises of total seventeen workshop practical from P1 to P17 and the same are arranged in hierarchical manner from simple to complex so that students should not only focus on completing the practical and getting the marks/ grades but will also be motivated to create useful products incorporating their creative and critical thinking as well.

Some salient features of the book:

1. Content of the manual aligned with the mapping of Course Outcomes, Programs Outcomes and practical outcomes.
2. Relevant theory has been included at the beginning of each practical.
3. The manual has been developed to ensure alignment with the Outcome Based Education philosophy and consisting of total seventeen workshop practical.
4. Unit wise practical are arranged in hierarchical manner from simple to complex.
5. Manual provides recent information and QR Code for E-resources etc.
6. Figures, photographs and table are inserted to improve clarity of the content.

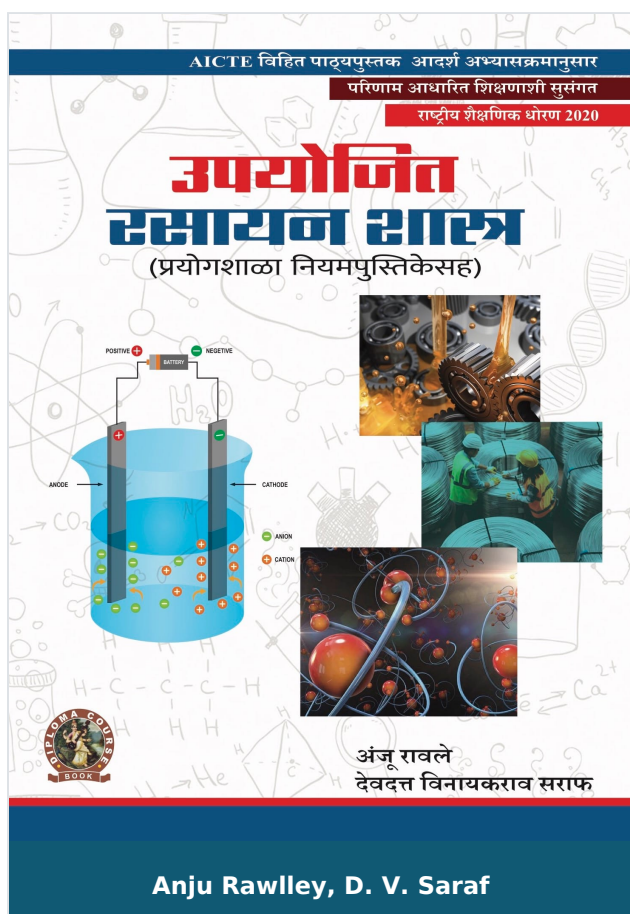
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Author

A. K. Sarathe

A. K. Sarathe



Applied Chemistry (with Lab Manual)

Author : Anju Rawlley, D. V. Saraf

ISBN 13 : 978-93-55380-47-0

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[Marathi Books, Book Store,](#)
[Ebooks](#)

Condition Type : New

Country Origin : India

Product Description

This text book o “Applied Chemistry” is development as per AICTE model curriculum ,2018, for compulsory course on Applied Chemistry of first years Diploma Program 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 program 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, analyse 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 units on some topics/sub topics for supplementary reading and reinforcing the learning.

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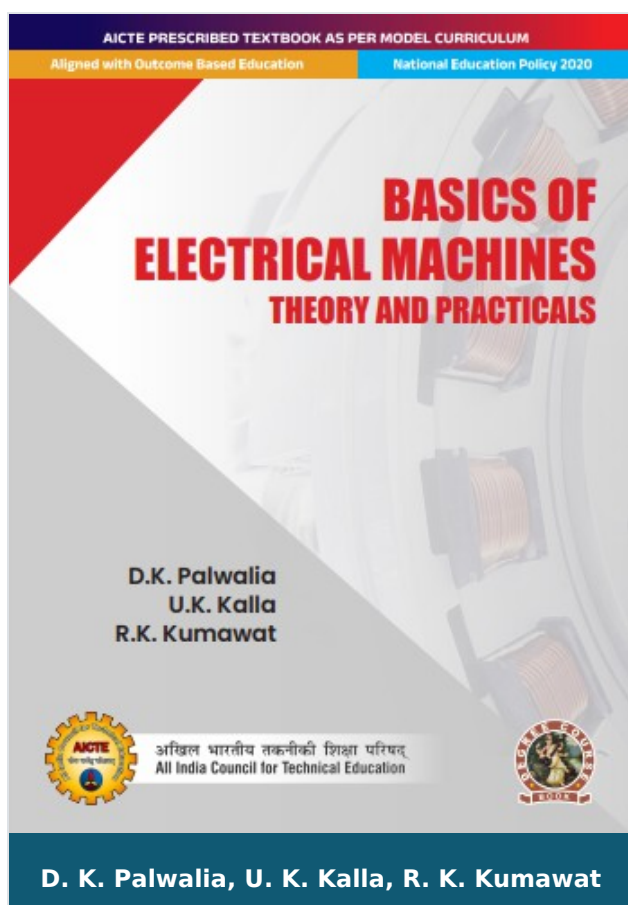
Author

Anju Rawlley

Anju Rawlley Devdatta Vinayakaraao Saraf

D. V. Saraf

D. V. Saraf



Basics of Electrical Machines: Theory and Practicals

Author : D. K. Palwalia, U. K. Kalla, R. K. Kumawat

ISBN 13 : 978-93-55387-12-7

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Edition : First

Pages : 540

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Publisher : Khanna Publishing House

M.R.P : Rs 798.00

Categories : [AICTE Prescribed Textbooks,](#)
[English Books, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Basics of Electrical Machines: Theory and Practicals

The Basics of Electrical Machines: Theory and Practical” is a comprehensive guide that provides a solid foundation in the principles and practical applications of electric machines. It covers magnetic circuits, electro-mechanical energy conversion, DC motors and generators, and transformers. By exploring these topics, readers gain insights into the fundamental principles of electric machines and their role in various industries. The book strikes a balance between theory and practice, offering clear explanations, examples, case studies, and problem-solving exercises. It aims to equip readers with a comprehensive understanding of electric machines and bridge the gap between theoretical concepts and their practical applications.

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, 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.

Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
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- Magnetic Field and Magnetic Circuits
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- DC Machines
- DC Machine – Motoring and Generation
- Transformers
- Appendices
- References for Further Learning
- Co and Po Attainment Table
- Index

Author

D. K. Palwalia

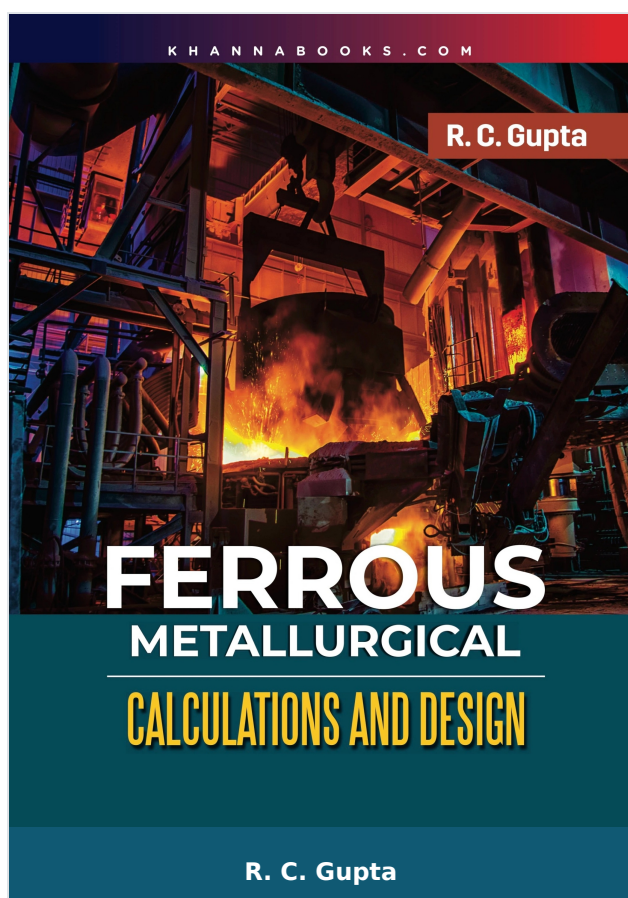
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R. K. Kumawat

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Ferrous Metallurgical (Calculations and Design)

Author :	R. C. Gupta
ISBN 13 :	978-93-55386-82-3
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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This book is a unique combination of ferrous metallurgical calculations and unit design. The book is divided in two parts each having eight chapters.

The part one on ferrous metallurgical calculations gives method to calculate mass balance, chemical analysis of the product and waste materials including exit gases. This part one covers Coal & Its Properties, Combustion of Fuels, Coke Making, Iron Ore Agglomeration, Blast Furnace Iron Making, Alternate Methods of Iron Making, Ferroalloy Preparation and Melting Metal & Alloys.

The second part on Ferrous Metallurgical Unit Design may be a globally first attempt to provide method of estimating basic design dimensions of some metallurgical units. This part covers Chimney & Draught, Coke Oven, Blast Furnace, DRI Kiln, Ladle Cupola, Basic Oxygen Steel Making Furnace, and Electric arc Furnace.

In addition, the appendices provide weight, Measure & Science Laws, Mathematical Formulae, Unit Conversion Tables, Useful Data, Commonly Used Materials, Raw, Materials for Iron & Steel Making, Fuels and their Properties and Steel Plant Waste materials.

Keys features

1. A useful book for Academic Staff & Students in Metallurgical Engineering, Steel Plant Executives, Metallurgical Consultants, Steel Plant Managers, Chartered Engineers, and Auditors.
2. A Metallurgical Engineering book giving calculation method for mass balance, product & waste analysis in various ferrous metallurgical processes.
3. A first book to give method for designing metallurgical units e.g. coke oven, blast furnace, DRI Kiln, BOF, EAF, Ladle, Cupola etc.

4. Each chapter starts with introduction to highlight importance before giving calculation or design & each chapter gives projects for students. Some reference for further reading is also given at the end of chapters.

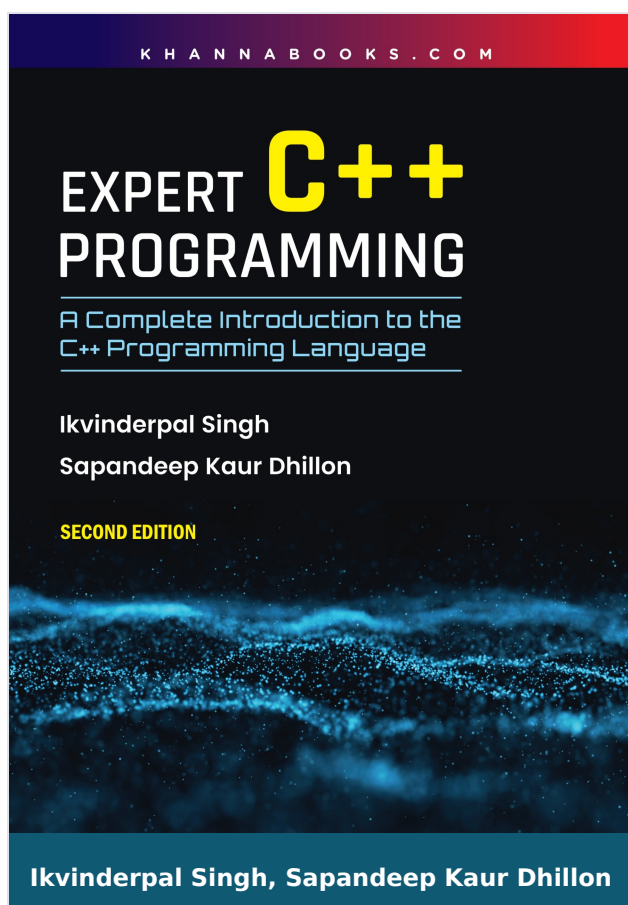
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- Part A: Ferrous Metallurgical Calculations
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- Iron Ore Agglomeration.
- Blast Furnace Iron Making.
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- Blast Furnace Dimensions.
- DRI Kiln Dimensions.
- Ladle Dimensions.
- Cupola Dimensions.
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- EAF Steel Making.
- Appendix

Author

R. C. Gupta

Prof. R C Gupta is an alumni, Former Professor and Head, Department of Metallurgical Engineering (Advanced Centre in Metallurgy), Institute of Technology (now IIT-BHU), Banaras Hindu University, Varanasi (India). In his four decades (1970-2010) teaching and research carrier he guided many students for their PhD, M. Tech., and B. Tech. degree in Metallurgy. He held various positions in national & international forums including Ministry & Forest (Delhi-GOI) & Pollution Control Board (Bhubaneswar-Odisha State). The Author is globally known by his three popular PHI (Delhi) textbooks: Theory & Laboratory Experiments in Metallurgy (2009 & 2025), Energy & Environmental Management in Metallurgical Industries (2012), and Fuels Furnaces & Refractories (2016). His chapter on Energy Resources, Its Role, and Use in Metallurgical Industries in Elsevier's publications (2014 & 2024) on Treatise in Process Metallurgy (Chief Ed. Sheshadri Seetharaman) has made global imprint. In view of his books and other research publications (>140 nos.) the author is included in world top 2% scientist prepared by a Group of Professors at Stanford University (USA) in 2020.



Expert C++ Programming

Author : Ikvinderpal Singh, Sapandeep Kaur Dhillon

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E-ISBN 13 : 978-93-74544-55-6

Edition : Second

Pages : 984

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Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 1,495.00

Categories : [Computer Science Engineering,](#)
[Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of c++ programming. Its approach is explanatory and language is lucid and communicable. Each and every concept described with the help of its pictorial representation, examples, and solved programming to have clear ideas. Each chapter contains programming problems, objective type questions, and exercises. This book will be useful for student of BE(Computer/Electronics), B. tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level Course of DOEACC.

Salient Features

- Detailed description to object-oriented programming and its features. It also includes evolution of C++ in detail.
- Complete introduction to C++ programming including basic structure is given in detail. Extensive coverage of constants, variables, various data types are given in detail.
- Various types of operators and expressions are described with the help of examples and simple programs.
- Demonstrates the description of console I/O statements in a lucid manner.
- Each and every control statement is described with the help of flowcharts and simple programs.
- Includes numerous illustrative examples to understand the topic easily.
- Demonstrates every program in a good programming style.
- Around 500 solved C++ programs are included.
- Around 300 objective type questions are included.
- Gives detailed description of arrays, strings and functions in lucid manner.

- Covers all concepts of array, pointers like array and pointer, function and pointer, dynamic memory allocation in detail. It also includes concept of structure and union.
- Covers all concepts of classes and constructor in a lucid manner, it also covers operator overloading; each and every operator is overloaded using programming techniques.
- All types of inheritance and polymorphism are given in detail with new concepts like virtual inheritance, aggregation, composition, virtual function, object slicing etc.
- Covers different special functions like inline, friend, static, const, volatile etc. with the help of examples and simple programs.
- Presents various streams and files operations like open (), close (), seek (), reading and writing a file, working with streams etc.

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- Operator Overloading
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- Polymorphism and Virtual Function
- Exploring Special Functions
- C++ Streams and Files
- Templates
- Exception Handling
- Standard Template Library and Namespaces

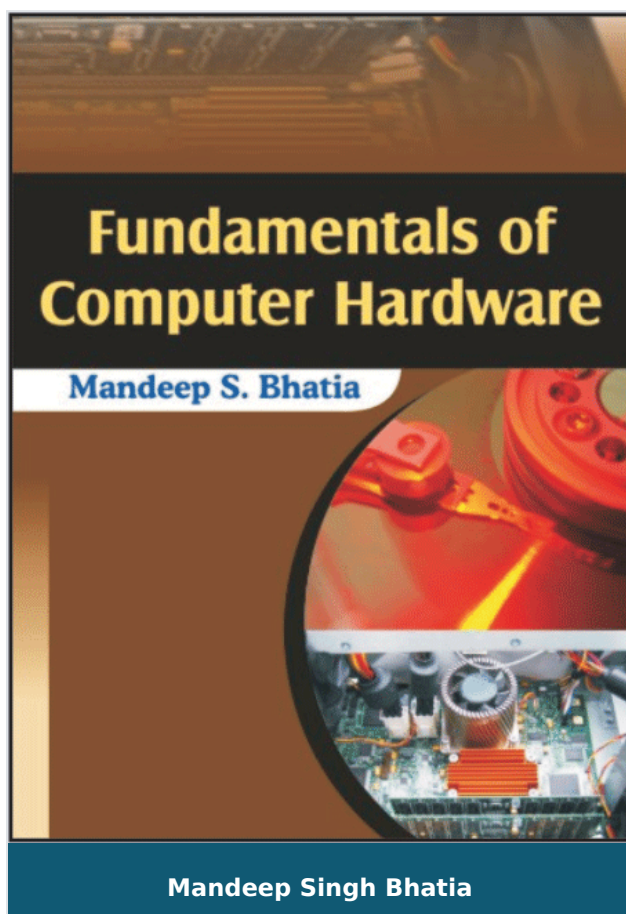
Author

Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

Sapandeep Kaur Dhillon

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.



Fundamentals of Computer Hardware

Author : Mandeep Singh Bhatia

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ISBN 10 : 8187325682

E-ISBN 13 : 978-81-87325-68-0

Edition : First

Pages : 612

Type of book : Physical

Year : 2013

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [Computer Science Engineering,](#)
[Book Store](#)

Condition Type : New

Country Origin : India

Product Description

This book written in simple language. You can get technical training regarding assembling, disassembling, maintenance, troubleshooting and upgrading PC's with the help of this book. This book covers everything from introduction of computer hardware to the advanced repairing techniques. You can learn regarding preventive maintenance of PC, which is a necessary part of every PC, because it insures that a PC operates for longer time periods and it involves fixing problems before they occur. The idea given behind preventive maintenance is to set aside some time to routinely open the computer, inspect it, clean it, and fix any items that may need attention.

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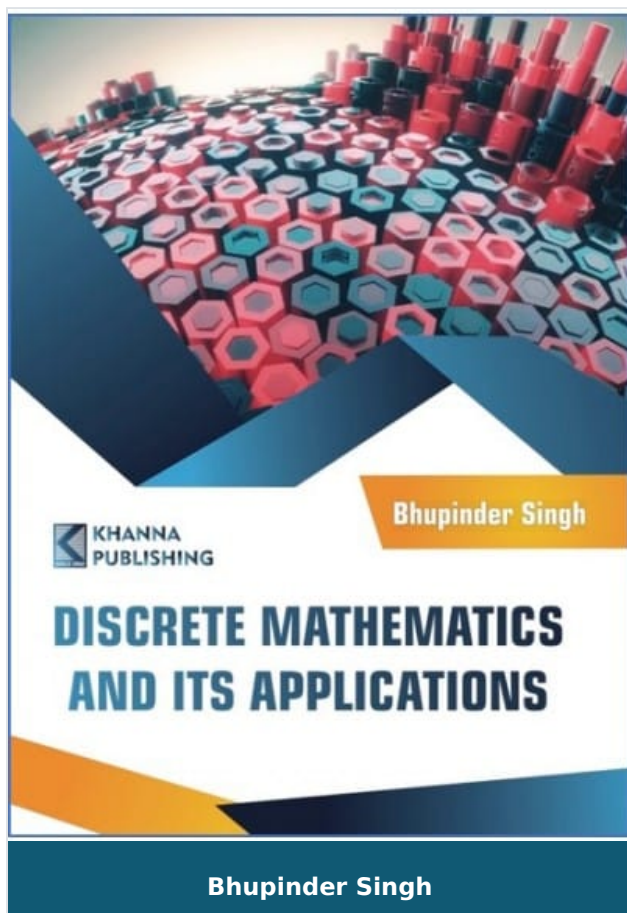
- Introduction to PC
- Assembling and Disassembling a PC
- Preventive Maintenance of a PC
- Troubleshooting General PC Problems
- Hard Disk
- Floppy Disk
- CD and DVD Drives
- Central Processing Unit (CPU)
- Motherboards
- Memory
- Peripheral Devices
- Modems
- Adapter Cards
- The PC Buses
- Basic Input/ Output System (BIOS)
- Buying a Computer
- Appendix A : Glossary of Terms
- Beep Codes

Author

Mandeep Singh Bhatia

Mr. Mandeep Singh Bhatia is presently working as Lecturer in Department of Computer Science & IT, Lyallpur Khansa College, Jalandhar. He is Master in Information Technology

and has appropriate knowledge of Computer Software and Hardware. He is proficient in applying Data Mining Techniques in various fields. His subjects of interest are Data Warehousing, Data Mining, Computer Networks and Computer Hardware. His total teaching experience is of 5 years. He has written one research paper which has been published in the proceedings of international conference held at Austria. Other books by authore are: "Fundamentals of Computer Hardware" and "A Beginner's Guide to Visual Bsaic 6".



Discrete Mathematics and its Applications

Author :	Bhupinder Singh
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	APPLIED SCIENCES & HUMANITIES, Book Store, APPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

Product Description

The book is designed for a one semester course in discrete mathematics for B.E. (Computer Science and Engineering), B.E. (Information Technology), MCA and BCA students. It covers syllabus of the most Indian universities. Keeping this in mind the contents of the books are incorporated accordingly. The discipline of mathematics requires working of problems to enhance the understanding. Therefore, numbers problems are appended at the end of each chapter. Solutions are also provided to these problems. This has been divided into 15 chapters. In spite of my best care, it is possible that some errors, printing mistakes etc., might have crept in. I shall be thankful if the same is brought to my notice. Suggestions for further improvement of the book by readers will be highly appreciated.

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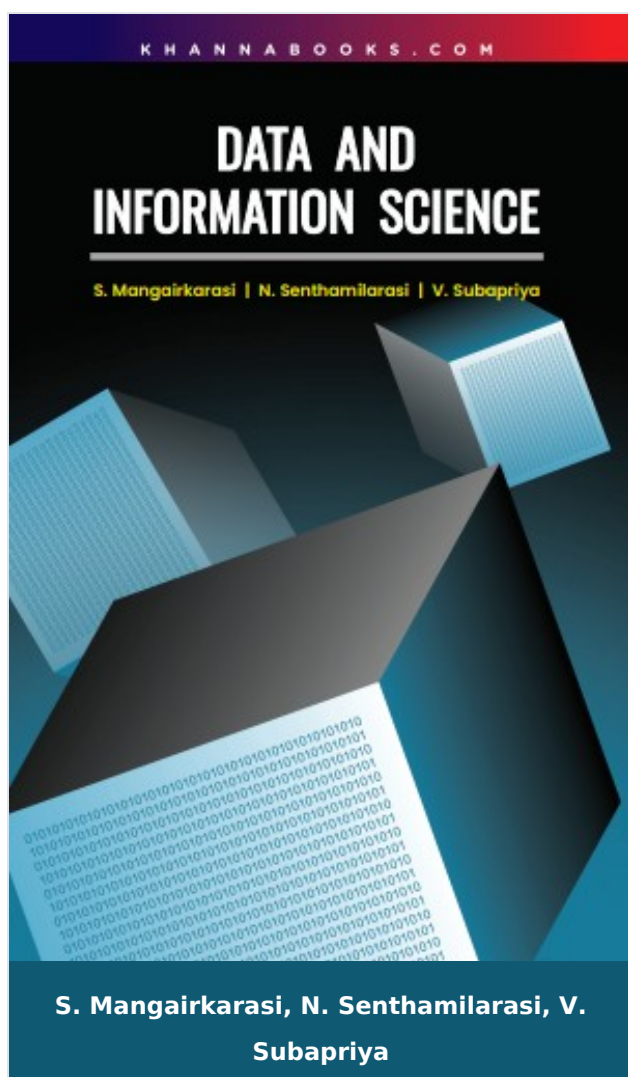
- Set Theory
- Mathematical Induction
- Relations
- Functions
- Combinatorial Analysis
- Graph Theory
- Planar Graphs, Colorations
- Trees
- Algebraic Systems
- Posets and Lattices
- Propositional Logic
- Boolean Algebra
- Finite State Machine
- Recurrence Relations
- Generating Functions

Author

Bhupinder Singh

Bhupinder Singh Bhupindra Singh Namadhari, Senior Lecturer, Computer Science and Engineering, Punjab Engineering College, Chandigarh, got his B.sc. (Electronics & Communication). From B.I.T. Mesra, Ranchi and M.E. from Devi Ahialaya Vishwa Vidalaya, Indore. He joined as lecturer at corps of Singals, Minstry of Defence and worked from May, 1980 to Jan, 91. He joined as a lecturer at Punjab Engineering College, Chandigarh and selected to the post of Assistant Professor in Department of Computer Science &

Engineering at R.E.C. Hamirpur. He was reverted back to Punjab Engineering College in Feb' 99. He is life member of the following societies: M.I.E.T.E, M.I.E., C.S.I, He was invited by Pacific Telecommunications Council-97 to act as a Chairperson in the field of Cyptography at Honolulu, Hawaii. He has published more than 30 research papers in the field of Cryptography, Artificial Intelligence, Vedic Mathematics in National/Internal Journal/Conferences. His research work in the field of "Computer Implementation of Vedic Mathematics Sutra" has been considered equivalent to Ph.D. in engineering by Dr. A.K. Ramani of University Putra Malaysia (More than 100 research papers to his credit). and Dr. P.K. Chande, Director, SGSITS Indore (More than 100 research papers to his credit) Bhupindra Singh has authored nine books in the field of Digital Electronics, Microprocessor, Cobol Programming and Microcontrollers.



Data and Information Science

Author : S. Mangairkarasi, N.
Senthamilarasi, V. Subapriya

ISBN 13 : 978-93-55389-72-5

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Publisher : Khanna Publishing House

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[Sathyabama Series](#)

Condition Type : New

Country Origin : India

Product Description

Data and Information Science

This book provides a comprehensive and practical guide to the multidisciplinary fields of data science and information science. In an increasingly data-driven world, the text addresses the critical need to understand, manage, and extract actionable value from massive data sets in sectors ranging from business to government. It is an essential resource for students, professionals, and hobbyists seeking to master the techniques of this transformative domain. The book systematically explores the entire data lifecycle, from initial data acquisition, preprocessing, and cleaning to advanced subjects like Artificial Intelligence, Big Data Analytics, and Data Ethics.

It successfully bridges the gap between theoretical concepts and practical application by detailing key methodologies, essential tools of Business Intelligence (BI), and providing real-world insights. Readers will gain an in-depth understanding of how to combine computer science, statistics, and machine learning principles to detect patterns, predict outcomes, and drive superior decision-making. Ultimately, this material is designed to equip you with the critical skills needed to utilize data effectively, spur creativity, and confidently participate in the ongoing data-driven revolution.

Salient Features:

- **Full Data Lifecycle:** Presents a complete framework covering all steps of the data lifecycle, from acquisition sources (Web APIs, Relational Databases) to data processing and final analysis.
- **Practical Tool Focus:** Integrates practical tools and libraries like Pandas, NumPy, and Matplotlib for real-world data preparation and implementation in Machine Learning models.

- **Data Quality Mastery:** Offers detailed strategies for improving data quality, including Data Wrangling, handling missing values, and utilizing Binning, Regression, and Clustering for noisy data.
- **Big Data Principles:** Introduces the fundamental concepts and challenges of Big Data (Volume, Variety, Velocity) and discusses effective strategies for processing and utilizing massive datasets.
- **Text Analysis Techniques:** Dedicated coverage of text-based data handling, exploring methods such as Bag of Words, Regular Expressions, and the practical application of Sentiment Analysis.
- **Visualization and BI:** Provides essential skills in data visualization basics, including creating compelling charts and dashboards using the leading Business Intelligence tool, Tableau.
- **Data Transformation Depth:** Explores the nuances of data transformation, detailing structural changes, normalization, discretization, and the difference between ETL and ELT processes.
- **Open Data Resources:** Highlights key sources for obtaining data, including internal/external systems, Cloud Data Warehouses, and open-source repositories like Kaggle and the UCI Machine Learning Repository.

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- Data Processing and Preparation
- Data Quality and Transformation
- Handling Text Data
- Business Intelligence Strategy and Road Map

Author

S. Mangairkarasi

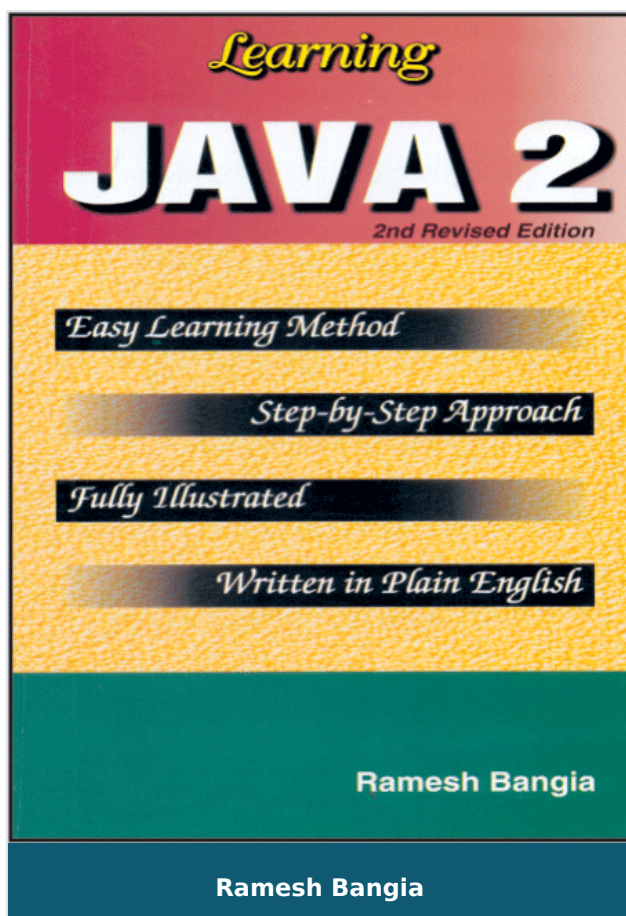
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N. Senthamilarasi

N. Senthamilarasi Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

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Learning Java 2

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Country Origin :	India

Product Description

Learning of a software is both easy and difficult. It depends upon 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 realise how difficult it is to master it. JAVA 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.

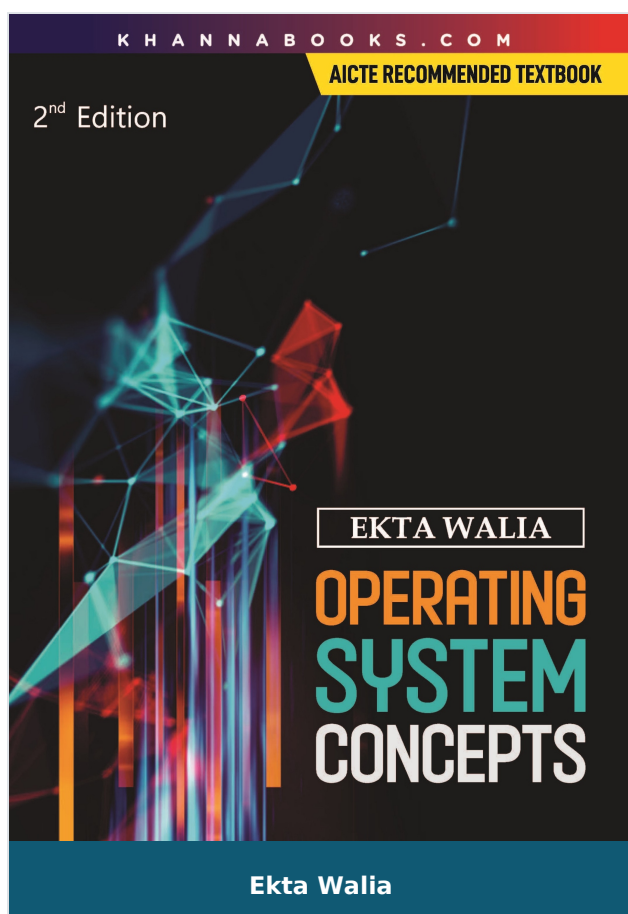
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- Introduction to JAVA
- JAVA and C++
- JAVA Programming
- Applets Programming
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- Object Oriented Programming
- Interface Design with Swing
- What's Next
- Questions

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 East and African countries.



Operating System Concepts

Author :	Ekta Walia
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Publisher :	Khanna Publishing House
M.R.P :	Rs 425.00
Categories :	Computer Science Engineering, UNIVERSITY RECOMMENDED, Computer Science Engineerings, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This is a revised edition of the eight years old popular book on operating System Concepts. In Addition to its previous contents, the book details about operating system foe handheld devices like mobile platforms. It also explains about upcoming operating systems with have interface in various Indian language. In addition to solved exercises of individual chapters, the revised version also presents a question bank of most frequently asked questions and their solutions. Value addition has been done in almost all the 14 chapters of the book.

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- Operating System : An Introduction
- Computer System Structures
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- Memory Management Basics
- Managing Virtual Memory
- File System Interface and Implementation
- Device Management and Storage Structures
- Protection Security
- Operating System for Distributed Systems
- Case Studies- UNIX and Windows NT
- Solution to Selected Exercise
- Frequently Asked Questions and their Solutions
- Index

Author

Ekta Walia

Ekta Walia