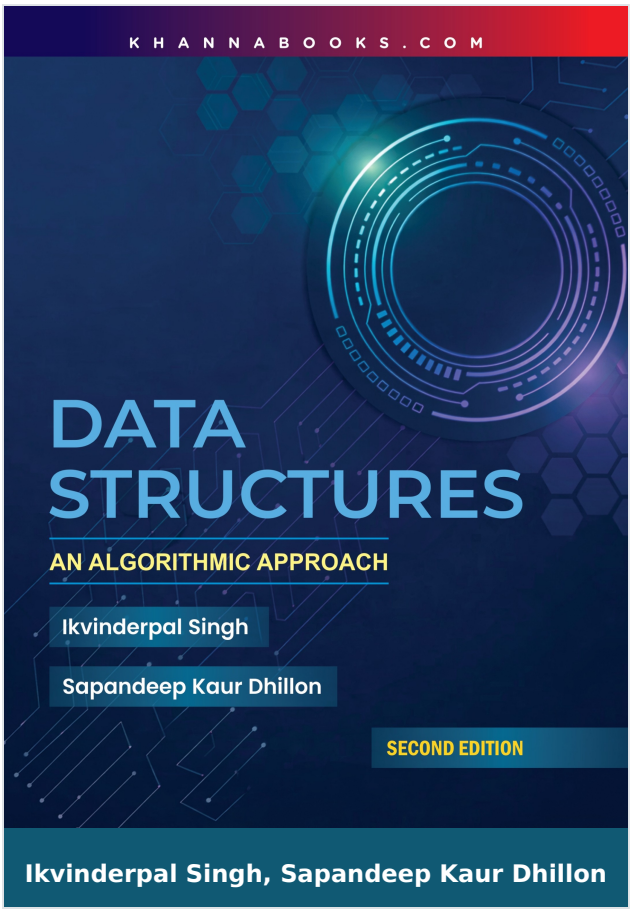

Data Structures - An Algorithmic Approach

Author :	Ikvinderpal Singh, Sapandeep Kaur Dhillon
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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

- Each chapter begins with an outline and overview, and a list of learning objectives.
- Extensive coverage of Data structure basics, pictorial representation of each and every data structures is given in detail.
- Demonstrates the development of algorithms in a lucid manner.
- Includes numerous illustrative examples to understand the topic easily.
- Demonstrates the implementation of algorithms in a good programming style.
- Objective-type questions have been provided.
- Around 200 algorithms are included.
- Diagrams are used extensively throughout the text.
- Contains numerous theory questions at the last of each chapter.
- Gives detailed description of arrays, stack and queues in lucid manner.
- Covers all tree structures like binary tree, binary search trees, AVL, B+ tree and red black trees in detail.
- Detailed analysis of each and every sorting and searching technique is covered with the help of programming examples.

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- Presents various hashing techniques like hash functions, linear probing, quadratic probing, double hashing and rehashing.
- Brief introduction to the concept of file and storage management.

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- Linked Lists
- Stacks
- Queues
- Trees
- Search Trees
- Heaps
- Graphs
- Sorting and Searching Techniques
- Hashing
- File and Storage Management

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

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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.

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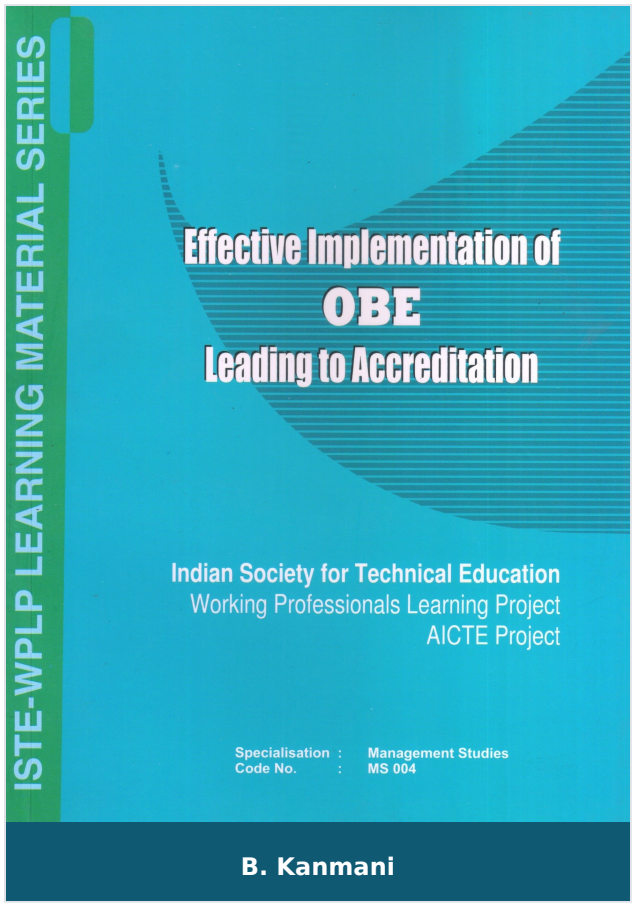

Effective Implementation of OBE Leading to Accreditation

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Product Description

Accreditation of programs has now become a measure of quality. Hence, a large number of engineering programs voluntarily apply to have their programs accredited. The programs put significant efforts towards preparing and submitting the Self-Assessment-Report (SAR), followed by the huge preparations for the actual evaluation by the expert team. Team book provides a comprehensive approach to ensure an effective implementation of OBE that is reflected through quality teaching together with quality assessments. The recommended processes when effectively implemented, leads to enhanced quality of the graduating engineers, as OBE is focused on student learning. This then reflects through enhanced performance of students in: Percentage of On-campus placements; Off-campus placements; Average ad highest pay package; Performance, through planned faculty contribution, eventually lead to accreditation. The book provides broad guidelines focused on implementation of Outcome Based Education (OBE) and associated academic procedures leading to accreditation of the program.

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- The Course Outcomes
- Computing the attainment of various Outcomes
- Student Performance
- Faculty Contribution
- Ensuring Continuous Improvement Through OBE
- Reference.

Author

B. Kanmani

Dr. B. Kanmani

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Expert Data Structures with C++

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Product Description

This text on data structures is for the beginners and expert programmers, who whish to enjoy the salient features of the subject in depth. The book covers all the popular data structures through emphasizing on the efficient algorithm development and implementing them in C++ with latest language features. Moreover , everything has been explained through self-explanatory figures. Fundamental techniques are developed in depth and are fully supported with program examples, Strong emphasis on exercises and examples throughout the text.

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- Linked List
- Stacks & Queues
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- Graphs
- Sorting & Searching

Author

R.B. Patel

R.B. Patel Prof. Ram Bahadur Patel, Professor, Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, U. T. Administration Chandigarh, earlier he was Professor at NIT Uttarakhand, graduated from Madan Mohan Malaviya Engineering College Gorakhpur in Computer Engineering in the year 1991. He did M.S. from BITS Pilani in the year 1996. He obtained his Ph.D. from the Indian Institute of Technology, Roorkee in the field of Distributed Computing and PDF in Reliable Computing from Athens Greece in the year 2005. He has supervised 18 PhD thesis and 42 M. Tech. dissertation. He has 4 Patents (1 US and 3 Indian) to his credit. He has published more than 190 research paper in International/National Journals and Conferences. He has organized 7 International Conferences/Seminars. He has edited 5 Scopus indexed Journal/Proceedings of National and International publishers, viz. Springer Verlag, American Institute of Physics etc. He has authored 7 Books on Data Structures, Automata

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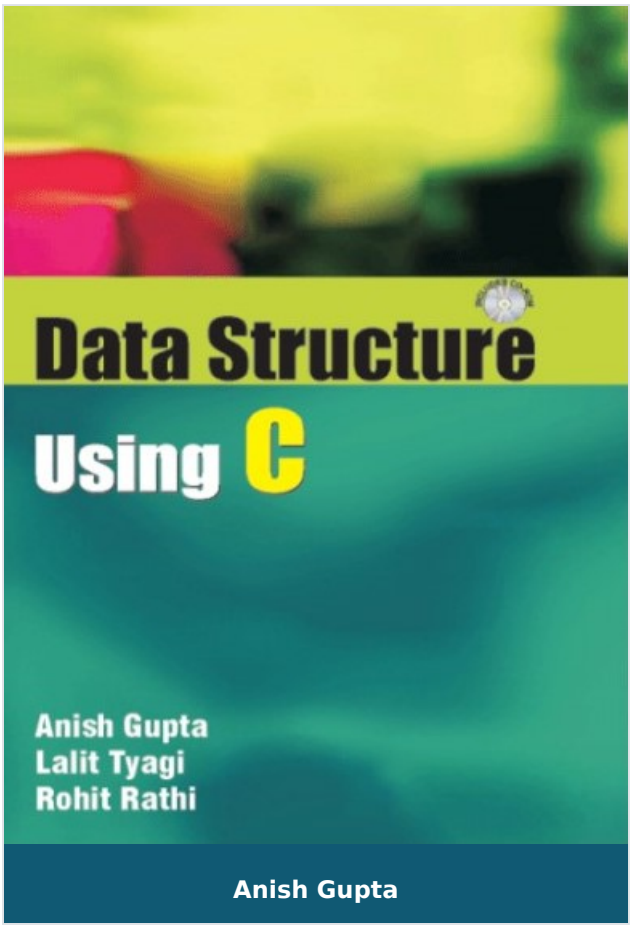

Data Structures Using C

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Product Description

This book provides an in-depth introduction to data structures and its uses had also lucid analysis of algorithms. It explains how the abstractions can be made concrete by using a programming language C. Each data structure is implemented in a variety of ways that provides the real choice for programmers and all programs are executed successfully. With the extensive use of figures and examples, the successive stages of an algorithm are explained in a much easier and understandable manner.

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- Linked List
- Trees
- Searching & Hashing
- Sorting
- Graphs
- Files
- Program List
- Multiple Choice Questions
- Question Paper

Author

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Anish Gupta is presently working as an Assistant Professor in the Department of Computer Science and Engineering at ITS Engineering College, Greater Noida. He has obtained B.Tech & M. Tech. (Computer Science & Engineering) and having 8 years of teaching experience.

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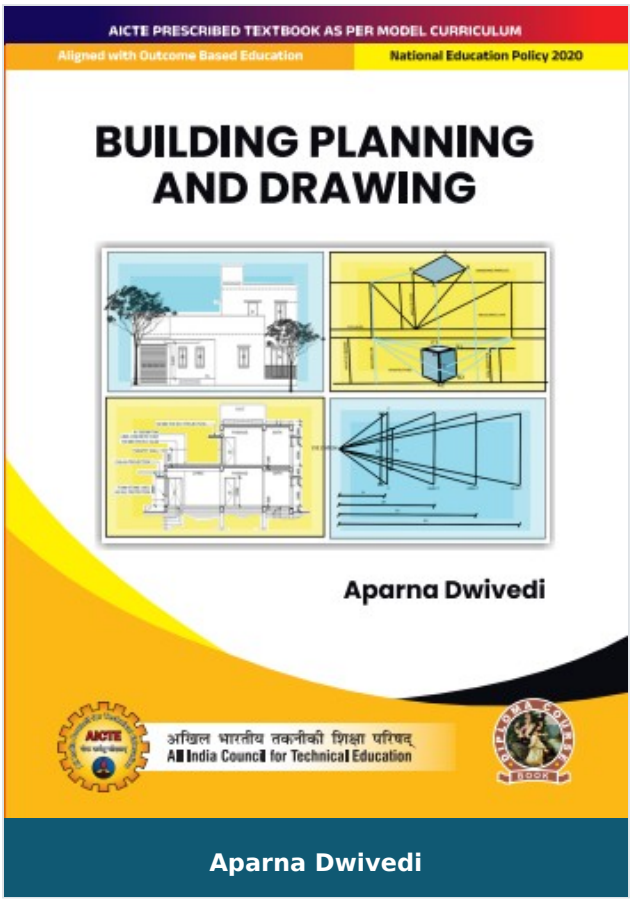

Building Planning and Drawing

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Product Description

Building Planning and Drawing

Building Planning and Drawing will be a very useful book for Civil Engineering and Building Industry. The focus of this book is the foundation of building design and understand the building vocabulary along with the process to approve plans and also writing specifications and Estimates. Different types of lines, types of scale, principles of planning for Residential and public building and the book also gives examples of line plans of residential building and public buildings like – school building, primary health Centre, restaurant, bank, post office, hostel, Function Hall and Library. Detailed drawings of load bearing structure and Framed

S

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

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- Planning of Building
- Drawing of a Load Bearing Structure
- Drawing of Framed Structure
- Perspective Drawing
- CO and PO Attainment Table
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Author

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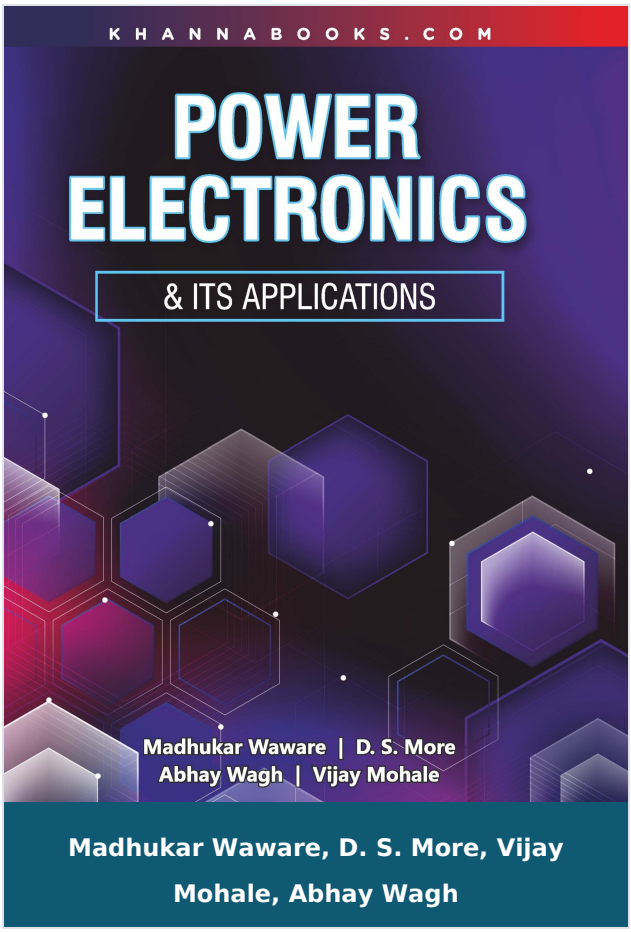

Power Electronics & Its Applications

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Product Description

Power electronics systems are used in a wide range of applications and have the potential to impact many areas of global industrial and social activity. From cell phones to pacemakers, and utilities to automobiles, power electronics, and the engineering behind those electronics are very influential in peoples' daily lives.

A comprehensive self-contained text book covers principles of Power Electronics and its Applications. It provides a basic approach for the development of fundamental concepts and deep insight into the subject matter. This text book develops the subject matter in a simplified sequential manner. Theoretical explanation is supported by graded solved examples and multiple-choice questions, which have been framed to help the students in grasping the theoretical principles and their applicability with coverage of various topics.

The book meets the requirements of undergraduate and postgraduate students of engineering and also guide for practicing engineer in the area of power electronics. It is also useful for those who are preparing for professional competitive examinations.

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- Active Power Filter
- Appendix
- Bibliography
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Author

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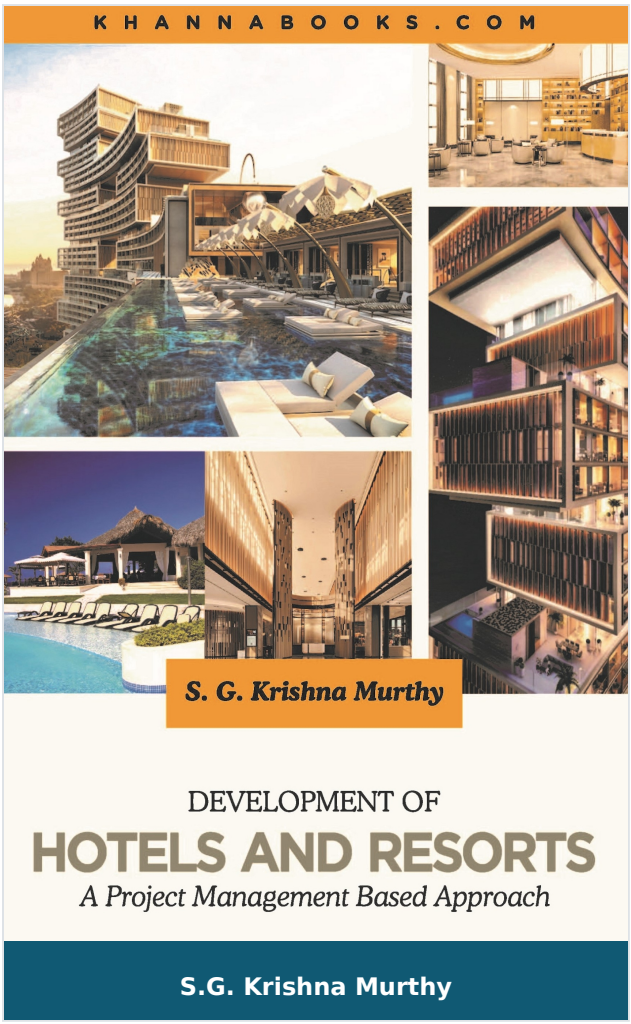

Development of Hotels and Resorts (A Project Management Based Approach)

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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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- Role of Project Coordinator
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- Role of Design Team
- Project Management/ Construction management
- 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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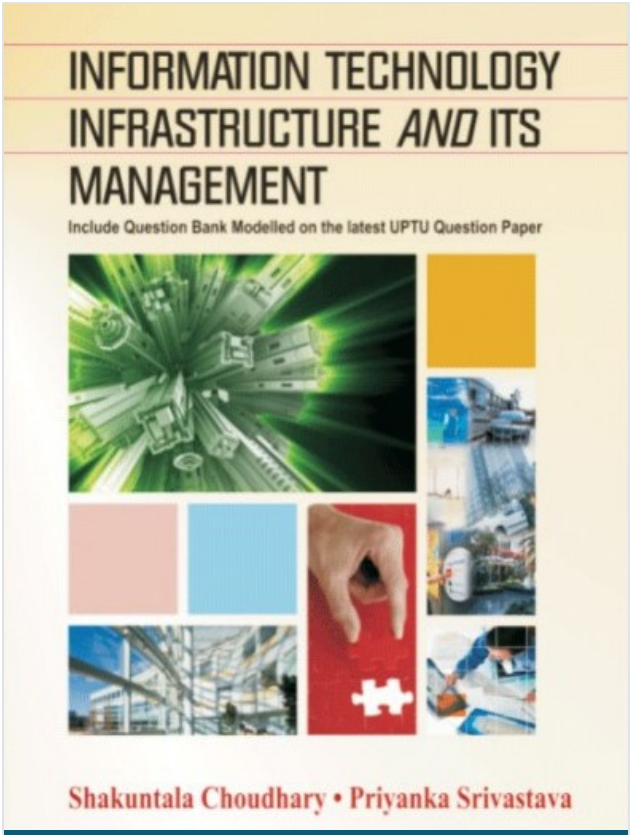

Shakuntala Choudhary, Priyanka Srivastava

Information Technology Infrastructure & Its Management

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Product Description

This book is specially designed to serve as a textbook for undergraduate students of engineering at Uttar Pradesh Technical University (UPTU), This subject has been introduced for the first time in UP technical University. We have tried our best to cover the whole syllabus. Throughout the text, it has been our Endeavour to keep the explanations and definitions as lucid as possible. This book is written exclusively with students in mind. The language in user-friendly and conductive to learning. Though every attempt has been made to avoid and check error, we will be grateful to readers if they can point out any that may have crept in inadvertently.

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- Service Support and Storage Management
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- IT Ethics and Emerging Trends
- Question Bank

Author

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Shakuntala Choudhary has completed his Bachelor of Engineering & M. Tech. in Computer Science & Engg. She started her teaching career in an Engineering Education from Sri Balaji College of Engineering and Technology, Jaipur, India. And worked their as HOD of IT Department. She also served in Dronacharya College of Engineering Gurgaon. Presently she is working in Bansal Institute of Engineering & Technology, Lucknow. She has rich experience in teaching for various subject like Automata, Analysis of Algorithms, Discrete Mathematics and IT Infrastructure. She had certified by ""Faculty Enable Programme"" (FEP) at INFOSYS, Chandigarh. She has published 3 - Vol of a technical magazine ""EPISTLE"" She has published various National level technical papers and Attended various Conferences. "

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Priyanka Srivastava has completed his B.Tech in Information Technology & MBA (IT) from ICFAI University. She started her teaching career in engineering education from Dr. M.C. Saxena College of Engineering & Technology, Lucknow. Presently she is working as a Faculty in Bansal Institute of Engineering & Technology, Lucknow. She attended various

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national level Seminars and Workshops. She has experience in teaching for various subjects like C-Programming, Web Technology, Database Management and IT Insfrastructure Management.

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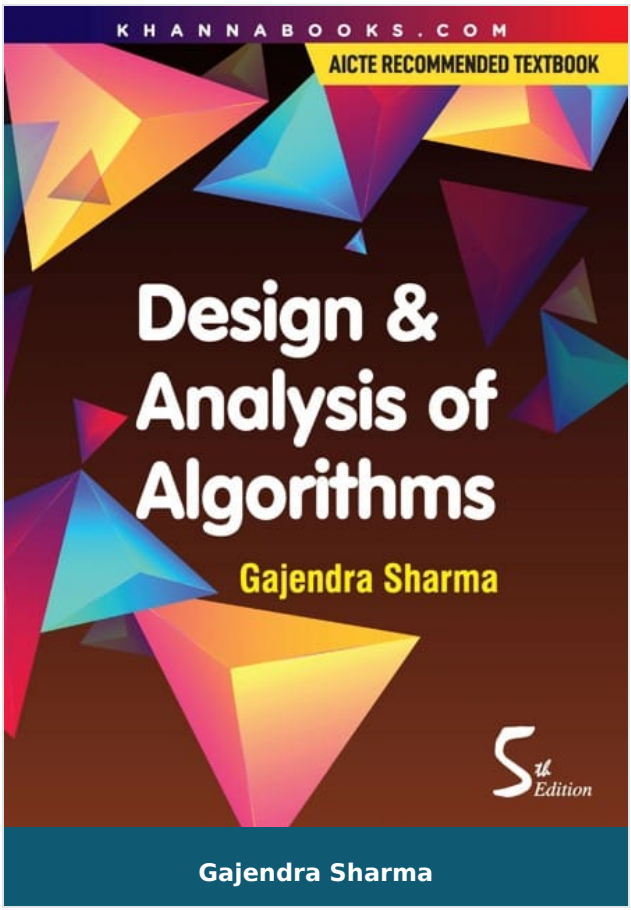

Design & Analysis of Algorithms

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Product Description

This book is intended for B. Tech (CS/IT), MCA and M. Tech students who want to have the basic to advanced knowledge of the design and analysis of algorithms. This book discusses various features of Algorithm design. In this 3rd edition more algorithms are added, papers of last few years are solved in chapters; few algorithms which were difficult to understand in previous edition are presented in easier form.

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Gajendra Sharma, a widely acclaimed author in the field of IT and Software both at the National and International arena, is currently working as an Assistant Professor at IIMT Group of College, Greater Noida. The best qualities of his writings have been the core topics of computer science, which has always been precise and concise with all concepts dealt in greater detail. He is having nine years of teaching experience. He also provides consultancy in software development to several IT firms.

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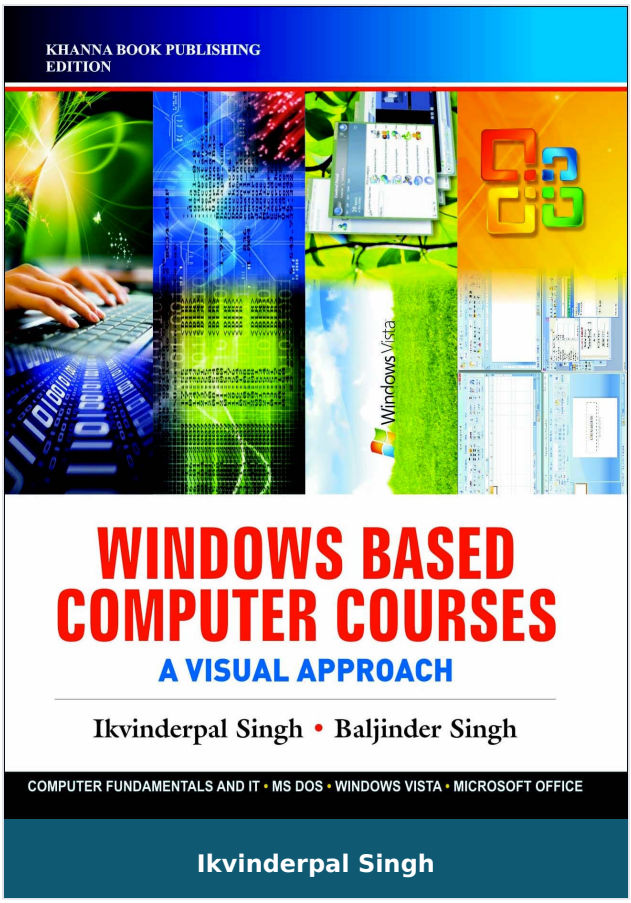

Windows Based Computer Courses

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Product Description

This book is meant for a wide range of readers who with to learn the basic concepts of computer fundamentals, MS DOS, window vista and Microsoft office 2003. In this book we cover all basic concepts of first year computer courses of various Indian Universities in a systematic and simplified manner. While writing this book, it was kept in mind to include only the relevant topics so that it is useful both for learning and reference purpose.

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Author

Ikvinderpal Singh

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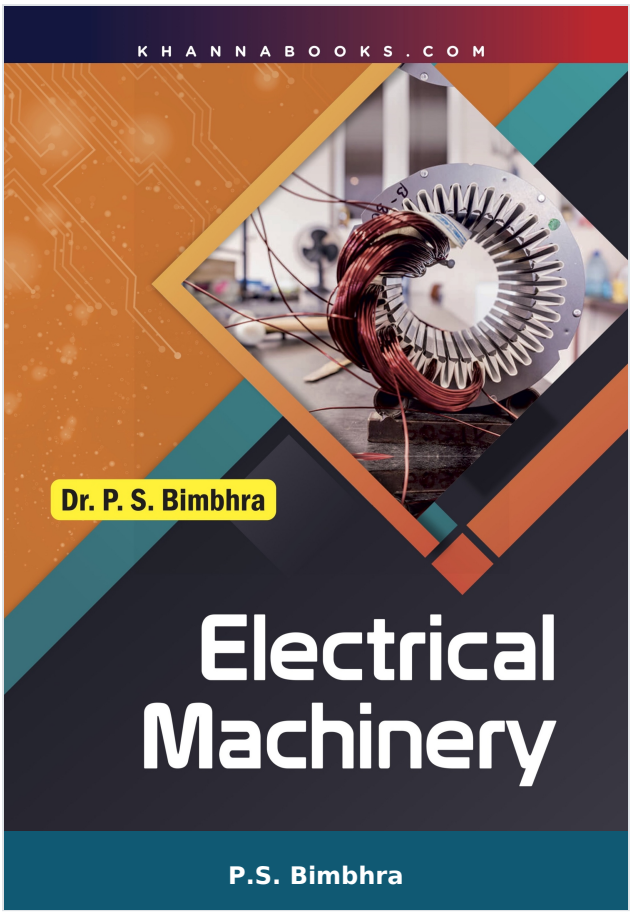

Electrical Machinery

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This thoroughly revised and updated edition presents a rigorous and comprehensive treatment of transformers and more common types of rotating electrical machine types. Each chapter begins with rudimentary concepts and is so developed that an average student can easily comprehend it. The salient features of this book are :

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Highlights that electrical machines operate on the same basic principles.

Devotes a chapter on electromechanical-energy conversion principles and another on dc/ac machine windings.

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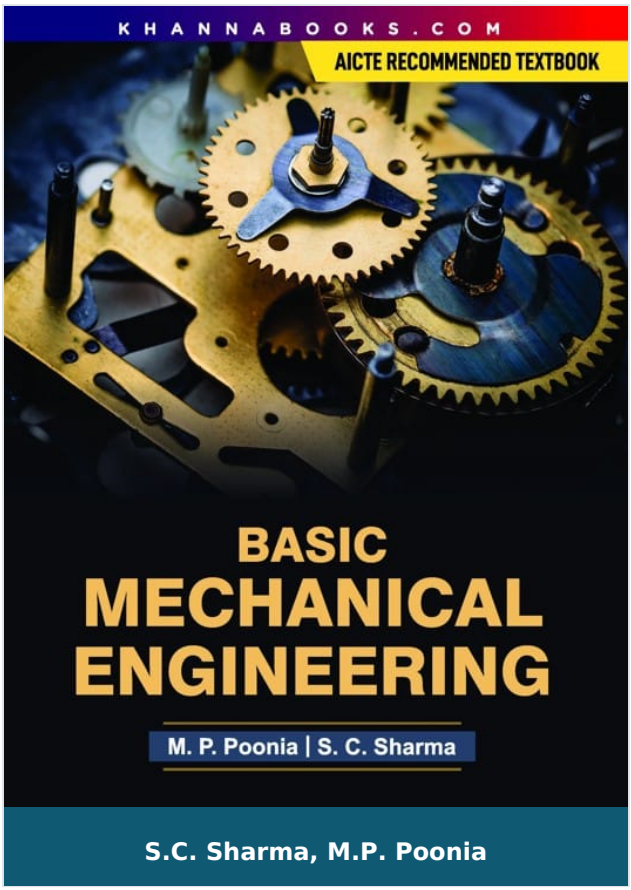

Basic Mechanical Engineering

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This book 'Basic Mechanical Engineering' has been written to provide knowledge and insight into various aspects of Mechanical Engineering. This book is intended as text book to be used by the students in the technical institutions i.e. Engineering Colleges and Polytechnics. The book covers Syllabi of various Universities on 'Basic Mechanical Engineering', 'Elements of Mechanical Engineering', 'Mechanical Engineering', 'Introduction to Mechanical Engineering' and 'Fundamentals of Mechanical Engineering' for the students of all the disciplines of Engineering.

Adequate attention has been paid to emphasize on basic principles involved in the subject matter. The explanation in the text has been supported with line diagrams, along with numerous solved problems.

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Author

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S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

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