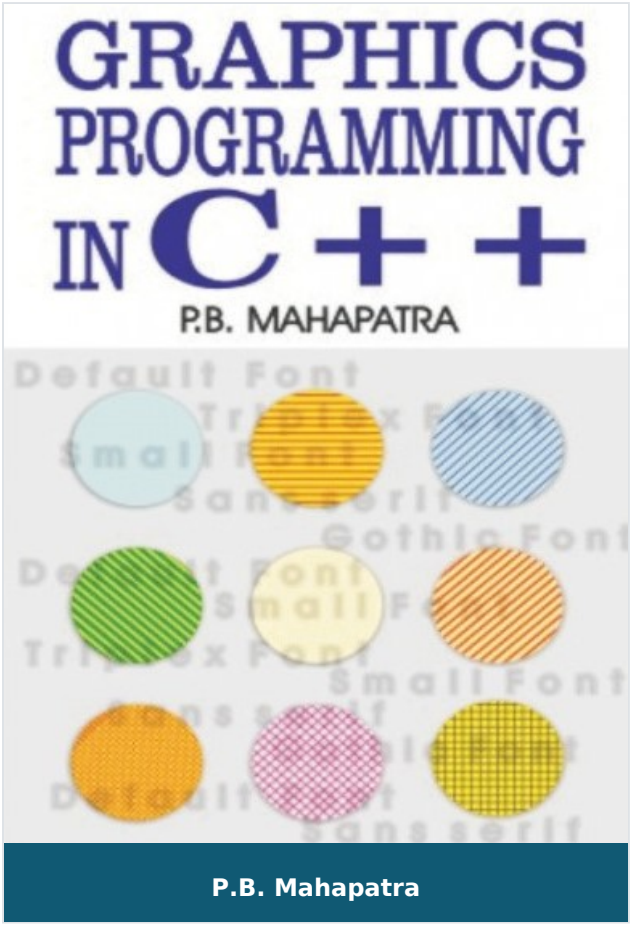


Graphics Programming in C++

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Product Description

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

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- Preparations for Graphics
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- Object Oriented Programming for Graphics
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- Interactive Graphics
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- Installing the Mouse
- File Input/ Output of Graphic Images
- Increase your Colour Options
- Translation
- Rotation & Scaling
- Three Dimensional Graphics

Author

P.B. Mahapatra

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

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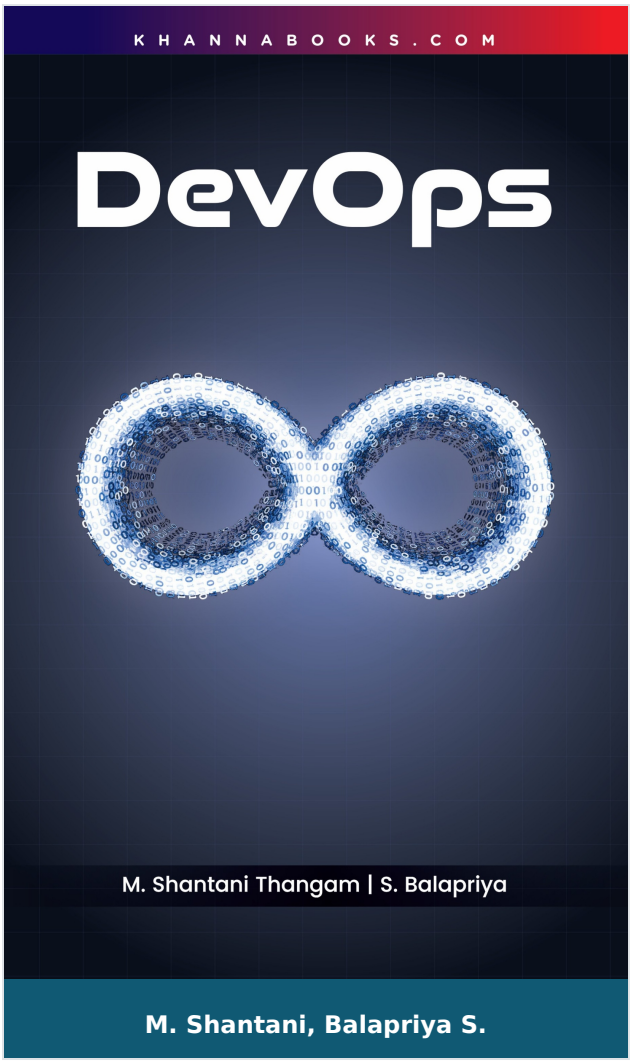
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Computer Aided production Management. Two more volumes, Essentials of information practice and essentials of computer Science have been authored by him for school children, written strictly according to the CBSE Syllabus, these are also very popular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

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Devops

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Product Description

This book serves as your essential guide to the world of DevOps—the powerful blend of cultural philosophies, practices, and tools designed to close the gap between development and operations teams.

By laying out the fundamental principles and complete lifecycle of DevOps, this text will equip you with a core understanding of how modern organizations deliver applications and services at high velocity. You will learn how to transition from traditional methods to a seamless, automated workflow that enables teams to produce software faster and more reliably.

From Continuous Integration (CI) and Continuous Deployment (CD) to infrastructure automation and real-time monitoring, this book provides the foundational knowledge and practical insights needed to foster better collaboration, streamline processes, and achieve a state of continuous improvement.

Salient Features:

• DevOps Fundamentals: Gain a clear overview of DevOps principles, including Customer-Centric Action, End-to-End Responsibility, and the core philosophy to "Automate Everything You Can".

• The DevOps Life Cycle: Deep-dive into the complete, iterative life cycle, covering the seven key stages: Plan, Code, Build, Test, Release, Deploy, Operate, and Monitor.

• CI/CD Pipeline Mastery: Learn the vital practices of Continuous Integration and Continuous Deployment/Delivery to ensure quick, automated, and frequent releases.

• Core Concepts Explained: Dedicated sections thoroughly cover essential building blocks like Version Control (using tools like Git/GitHub), Build Automation (using Jenkins, Maven), and Configuration Management (using Chef, Puppet, and Terraform).

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• Clear Distinctions: Understand the key differences between DevOps and the Agile methodology, learning how DevOps complements Agile's iterative approach.

• Essential Toolchain: Get an overview of popular DevOps tools for containerization (Docker, Kubernetes), monitoring (Prometheus, Nagios), and automation, helping you choose the right technology for your pipeline.

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- Introduction to DevOps
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- Cloud Computing and AWS
- GIT and Configuration Management Tool
- Deployment and Monitoring Tool

Author

M. Shantani

Shanthi Thangam M. Balapriya S.

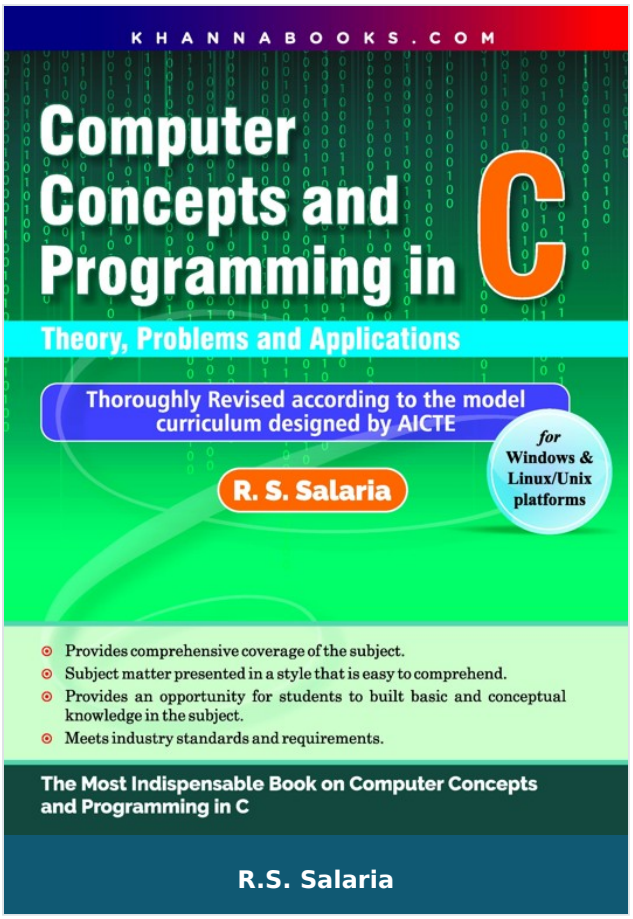
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Computer Concepts and Programming in C

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Product Description

The subject on Computer Concepts and Programming in C (or with the name Fundamentals of Computer and Programming in C) is one of the core courses in various undergraduate and postgraduate program of various ins tuition and universities of India. This book is designed to serve as textbook for those program of study.

While writing the book. special emphasis is given to keep the language very simple and lucid; level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease.

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- Decision Making and Looping
- User-Defined Function
- Arrays and Strings
- Implementation of Basic Algorithms
- Structures
- Pointers and Dynamic Memory Algorithms
- File Handing
- Appendix
- Index

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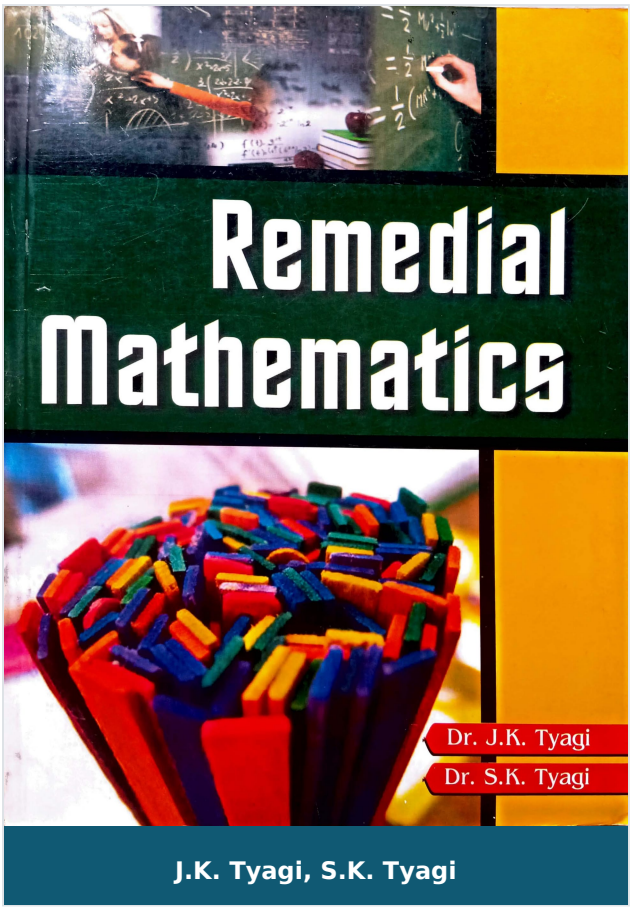
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Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: 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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J.K. Tyagi, S.K. Tyagi

Remedial Mathematics

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Product Description

KEY FEATURES:

1. The languages is very simple and easily understandable.

2. The approach is to communicate the practical aspects of mathematics in a way that drives out the common fear of learning any mathematical subject.

3. A large number of solved and unsolved problems have been included.

4. Topics are followed by figures and tables.

5. The notations and terminology have been clearly explained wherever desirable.

6. In chapter, all concepts and definitions have been discussed in detail with suitable examples.

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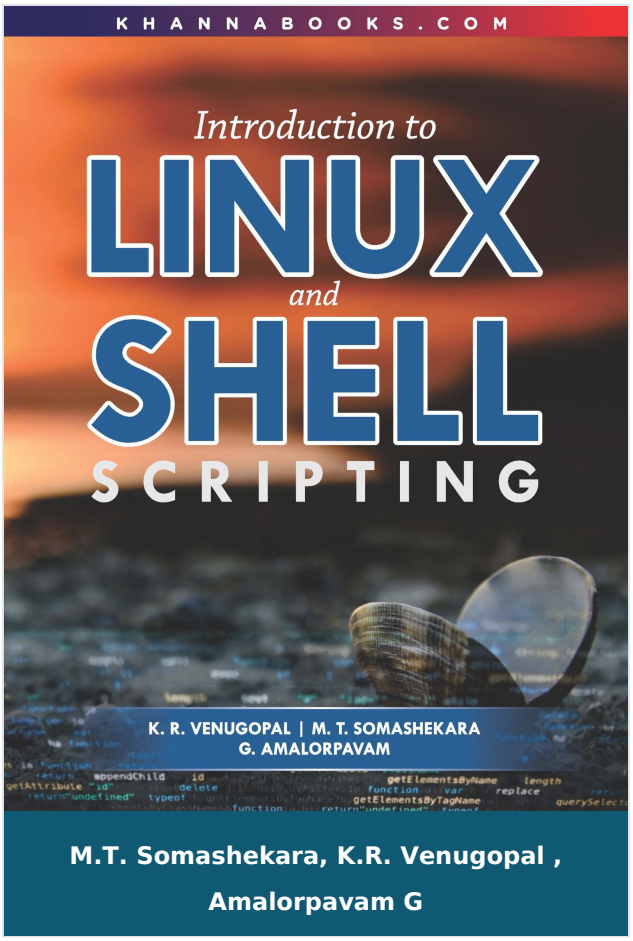
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Introduction to Linux and Shell Scripting

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Product Description

Linux is the most popularly used open-source operating system. Linux Operating system is used in servers, clouds, desktops, laptops, and even in mobiles. Since the usage and popularity of Linux operating systems have increased, the demand for quality and comprehensive Linux Books also has increased. There is a demand for Linux books that are easy to understand, offering more practical examples and covering most of the concepts required for the programmer and the learners. Our book caters to these requirements. A lot of practical examples of all the commands and shell scripts are given. Commands and Shell Scripts are executed using the latest version of Ubuntu Linux. Objective-type questions and solutions are provided at the end of each chapter. We are sure that the readers can enjoy the Linux journey and they will surely gain a grip over the Linux operating system, which in turn provides confidence to them to work with Linux systems and also empowers them to face competitive examinations and interviews. We have focused on students as well as Linux programmers. Our book is easy to understand and more user-friendly. Beginners can follow the book comfortably. We have prepared the table of contents by focusing on most of the reputed universities and autonomous colleges. Our book covers the syllabi of most of Indian universities. It will certainly be useful not only for students of Computer Science and Information Technology but for Linux programmers also.

Salient Features:

1. The book is self-readable, comprehensive and highly informative. It covers the concepts of Linux Operating System and Shell Scripting quite exhaustively.

2. It covers syllabi of B.E., BCA, MCA, BSc of most of the Indian universities. It will certainly be useful not only for students of Computer Science and Information Technology but for the Linux Developers as well.

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3. It certainly gives the necessary skills to the learners to develop any type of application.

The learns can get the necessary skills to work on Linux Servers.

4. Linux commands are explained systematically. Practical examples are given for each and every command. The commands are executed using the latest version of Ubuntu one of the popular Linux Distro.

5. Detailed information is given about how to use text editors such as vi editor and others.

6. It provides comprehensive coverage of the concepts such as Filters, Awk programming, and Linux Stream Editor.

7. Summary, review questions and MCQs are given abundantly at the end of each chapter to recapitulate the concepts quickly and reinforce learning.

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has several research papers to his credit in national and international journals. He is a life member of ISTE CSI, ISCA, and IUPRAI. His areas of academic interest include Data Structures, Algorithms, Programming Languages, Operating Systems, and Databases. His areas of research include Image Processing and Pattern Recognition. K.R. Venugopal K.R. Venugopal is the Vice-Chancellor of Bangalore University. He has an illustrious, distinguished, and brilliant academic career with Eleven degrees including two Ph.Ds, one in Economics from Bangalore University and another Ph.D. in Computer Science and Engineering from IIT Madras. He has served UVCE and Bangalore University for over the last four decades. He received his ME degree in Computer Science Engineering from the Indian Institute of Science, Bangalore, Bachelor of Engineering in Electronics and Communications from UVCE and has also obtained degrees in Law, Journalism, Public Relations, Business Finance, Economics, Industrial Relations, and Communications. He was a Post Doctoral Research Scholar and Visiting Professor at the University of Southern California, USA. He has authored and edited 72 books in Economics and Computer Science published more than 1000 papers in refereed International Conferences and Journals and has been credited with 24 patents. He has established two Engineering colleges and two schools in Bangalore. He has awarded Ph.Ds to 30 students and informally guided more than 150 Research Scholars and supervised more than 700 Post Graduate dissertations in Computer Science and Engineering. He received IEEE Fellow and ACM Distinguished Educator award from the USA for his outstanding contributions to Computer Science and Engineering. Amalorpavam G Amalorpavam G. is with the Department of Computer Science, Sambhram Academy of Management Studies, affiliated to Bangalore University, Bengaluru. She did her MCA from Baharathidasan University and M.Phil from Alagappa University, Tamilnadu. She has 19 years of teaching experience. She has many research papers to her credit in national and international journals. Her areas of academic interest include Software Engineering, Programming Languages, Operating Systems, Relational Database Management Systems, Object-Oriented Analysis and Design and Artificial Intelligence. Her areas of research include Image Processing and

Pattern Recognition.

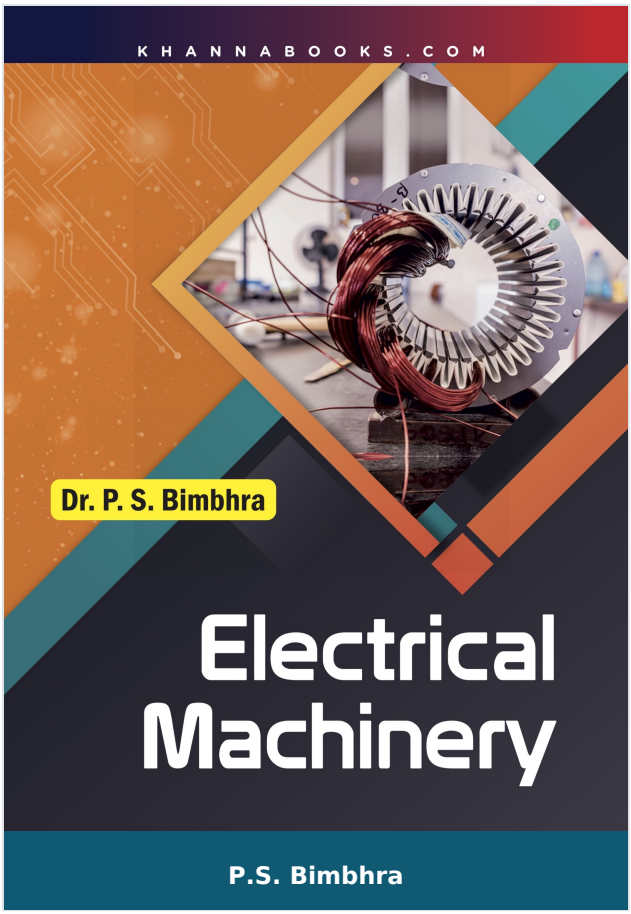
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Product Description

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 :

In-depth coverage of transformers, dc machines, 3-phase synchronous, and induction machines.

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.

Drive aspects and applications are discussed for each machine type.

Clarity of presentation is enhanced by illustrative figures and examples selected from question-papers of important Universities, IAS, IES and GATE.

Includes numerous problems, conceptual questions and objective-type questions (with answers) to help the reader master the basic concepts.

This edition includes a chapter on “basic principles of electrical machines.”

All these features contribute towards making this book an ideal text for undergraduate students of degree classes. Practicing engineers, through self-study, will also find this volume useful to them.

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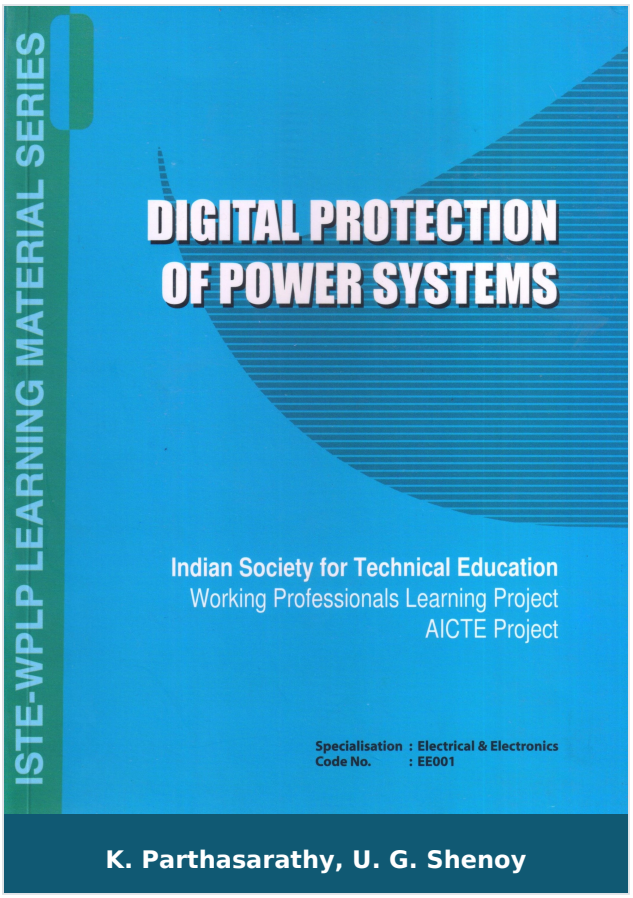
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Digital Protection of Power Systems

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Product Description

The development in the area of power system protection has taken a tremendous leap forward in view of the technological advancements in electronics, especially with the introduction of new designs in microprocessor technology such as microcontrollers and Digital Signal Processors (DSPs). The subject on digital protection of power systems has become highly interdisciplinary encompassing various disciplines such as analog and digital electronics, digital signal processing, software development, communication technology, Artificial Intelligence (AI) techniques in addition to the study of power system subjects like electrical machines, power system analysis, simulation /modeling involving load flow, short circuit, stability problems etc. This book is intended for practicing engineers, planning and operation staff working in power plant, industries and electrical utilities to familiarize with the developments in the protection of power system devices and networks. Research in academic institutions, R&D establishments and teachers conduction advanced power system protection course in engineering college can use this book as reference.

The chapters in the book have comprehensive coverage of various issues of power system protection, namely digital relay architecture, modelling

techniques for simulation transient phenomena in power networks based on Electromagnetic Transient Package (EMTP), result of case studies for better appreciation of EMTP, Modelling procedures of current and voltage transformers, Capacitor Voltage Transformers (CVTs) and their transient behaviour, hardware and software considerations keeping in view of the latest advancements in hardware designs based on DSPs and microcontrollers and software development issues of various digital relaying algorithms based on signal processing techniques for implementing high speed and accurate relaying schemes, application of digital relaying for protection of major power system components like busbars, power transformers, synchronous and induction machines.

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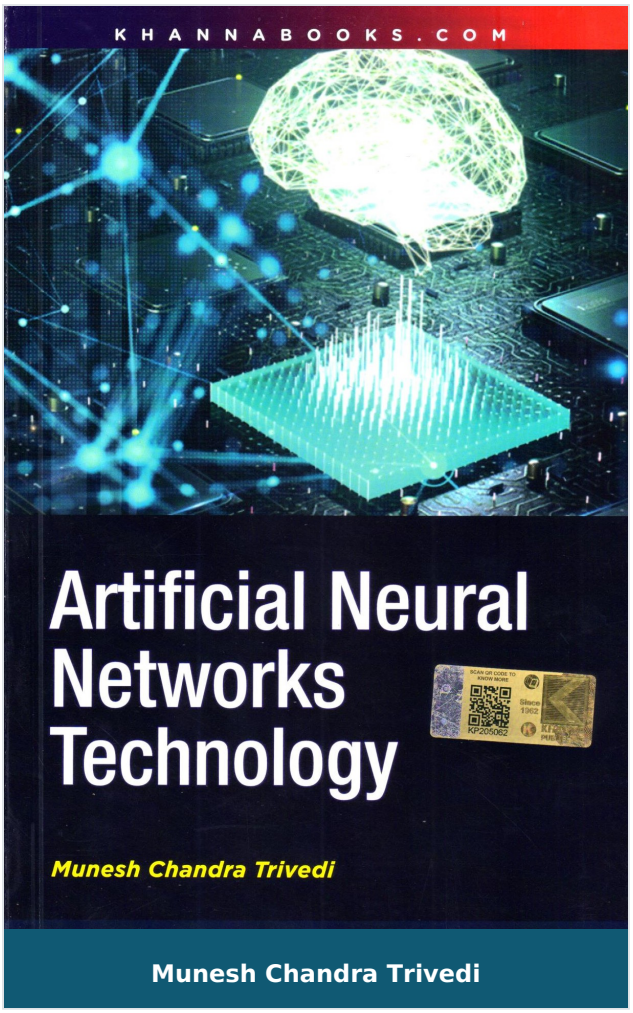
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Artificial Neural Networks Technology

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Product Description

There are many books available in the market on the proposed topic but none of them can be termed as comprehensive. Besides, students face many problems in understanding the language of the books. Keeping these points in mind, artificial neural network Technology was prepared. which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities. Simple & easily understandable language. Includes real world examples to illustrate the concepts, contains latest topics such as downsizing & right sizing, etc, provides numerous illustrations, examples and end-chapter exercises.

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- Software Architecture
- Network-based Application Architecture
- Network-based Architectural Styles
- Designing the Web Architecture: Problems and Insights
- Representational State Transfer (REST)
- Experience and Evaluation

Author

Munesh Chandra Trivedi

Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the

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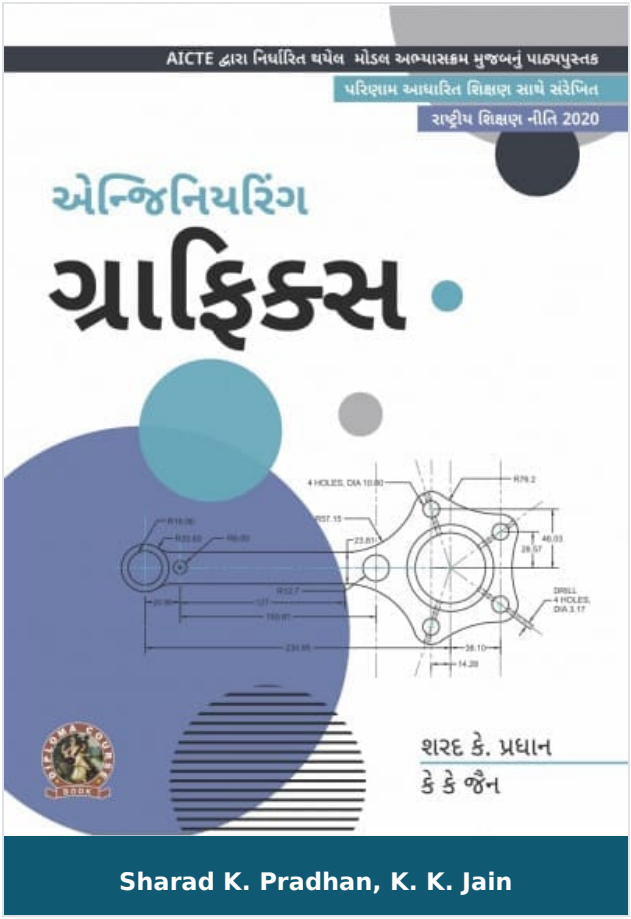
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additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32 international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

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Engineering Graphics

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Product Description

“ Engineering Graphics” is a compulsory 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. Book covers six topics- Basic Elements of drawing , Orthographic Projections, Isometric Projections, Free Hand Sketcher of Engineering Elements, Computer Aided Drafting Interface, Computer Aided Drafting. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

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

2. In start of each unit learning outcomes are listed to make the student understand what is expected out of him/ her after completing that unit.

3. Book provides lots of recent information, interesting facts, Codes for E-resources, QR Code for use of ICT, projects, group discussion etc.

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

5. Figures, tables and software screen shots are inserted to improve clarity of the topics.

6. Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.

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

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

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- Orthographic Projections
- Isometric Projections
- Free Hand Sketches of Engineering Elements
- Computer Aided Drafting Interface
- Computer Aided Drafting

Author

Sharad K. Pradhan

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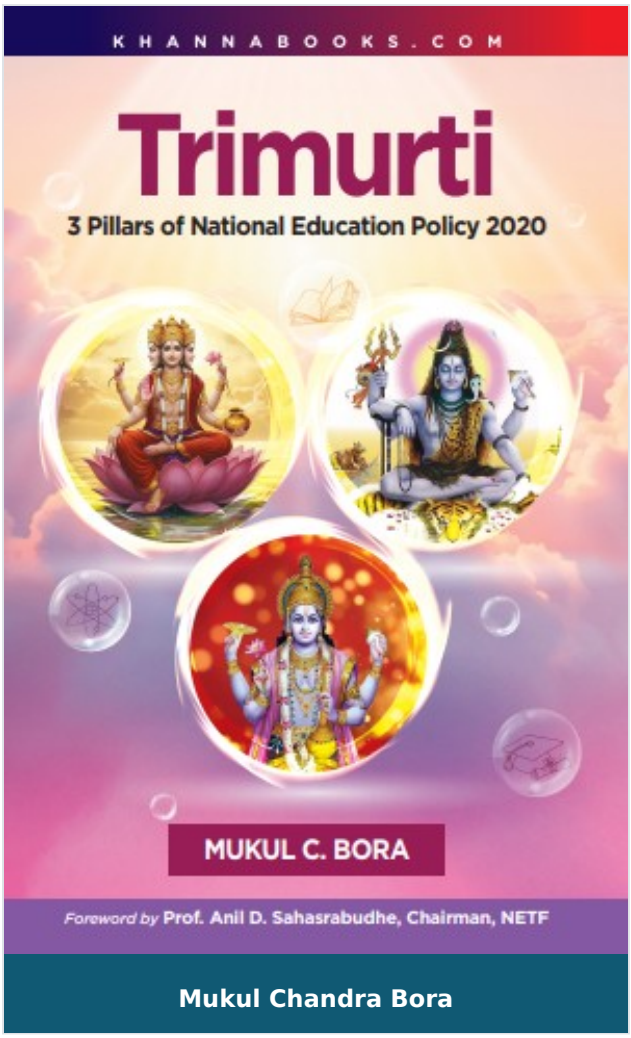
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Trimurti (3 Pillars of National Education Policy 2020)

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Product Description

3 pillar of National education policy 2020

This book beautifully connects the wisdom of the Trimurti-Brahma, Vishnu and Shiva, with the vision of our National education policy (NEP) - 2020. It blends Bharat’s ancient knowledge traditions with modern education reforms, inspiring holistic growth, inclusivity and future readiness for learners and educators alike.

Salient Features

- Presents NEP 2020 through the lens of India’s cultural heritage.
- Explains how Brahma, Vishnu and Shiva are considered symbols of India’s education system’s creation, preservation, and transformation
- Highlights the Indian Knowledge system’s role in modern education.
- Promotes multidisciplinary, values-based and skill-oriented education.
- Bridges tradition and innovation for sustainable progress.
- Written in simples, engaging and relatable language.

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- Lord Vishnu and multidisciplinary Education and Research
- Rudra as the third pillars of National Education policy 2020
- The Role of IKS, Multidisciplinary Research, and 21st Century Skills as per National Education Policy 2020
- Conclusion

Author

Mukul Chandra Bora

Dr. Mukul Chandra Bora has an extensive academic background in civil engineering, reflecting his commitment to scholarly excellence. He earned a Ph.D. in Civil Engineering from the Indian Institute of Technology (TIT) Guwahati in 2011, following an M. Tech in Geotechnical Engineering from IIT Kharagpur in 2000. His journey in the field began with aB.E.in Civil Engineering from Dibrugarh University in 1988. With decades of professional experience, Dr. Bora has held key academic and administrative roles. Since August 2012, he has been the Director of the Institute of Engineering & Technology, Dibrugarh University. Previously, he served as State Project Administrator for the Northeast State Project Implementation Unit (2017-2021) of TEQIP - III project of Ministry of Education, Government of India. His teaching career includes a tenure at Technical Education Department of Government of Assam together with professional experience as a Quantity Surveyor at PBS Limited, Guwahati (199l-1995) and a Site Engineer at M.L. Dalmiya & Co.

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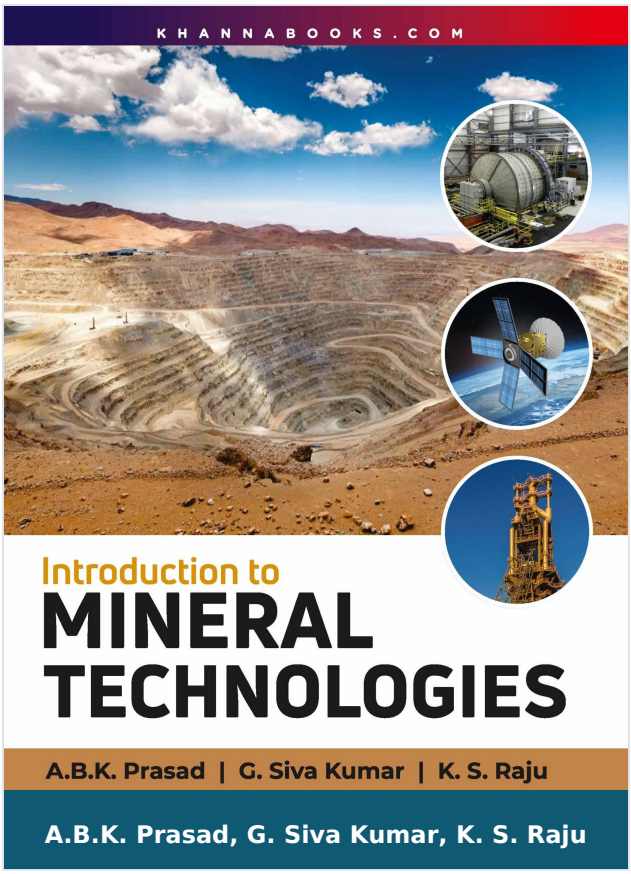
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Ltd., Kolkata (l989-1991). Dr. Bora's research and consultancy work focus on ground improvement techniques, geosynthetics, rainfall impact on groundwater, non-biodegradable waste in construction, and slope stabilization. He has contributed significantly to materials characterization and geotechnical investigations for major infrastructure projects, including power plants and industrial facilities. He is at fellow of the Institution of Engineers (India), a Senior Member of the Asia Pacific Chemical, Biological and Environmental Engineering Society (Hong Kong), and a Member of the International Association for Life Cycle Civil Engineering (Italy). Additionally, he serves as a reviewer for reputed journals, including Springer's Journal of the Institution of Engineers (India), Series A. Beyond civil engineering, Dr. Bora has made remarkable contributions to the Bhartiya Knowledge System (BKS), which encompasses philosophy, science, mathematics, astronomy, Ayurveda, linguistics, and traditional Indian technologies. Rooted in ancient texts like the Vedas and Upanishads, BKS has profoundly influenced Indian civilization. Dr. Bora is dedicated to reviving and integrating traditional Indian knowledge with modern research and education, bridging the gap between ancient wisdom and contemporary advancements. His book, ''Foundations of Bhartiya Knowledge System" (2023), published by Khanna Publishing House, delves into the fundamental principles of India's knowledge systems, promoting their relevance in the modem era. Through his work, Dr. Bora continues to advance both civil engineering and India's intellectual heritage, fostering a deeper appreciation of Bhartiya wisdom among scholars and students.

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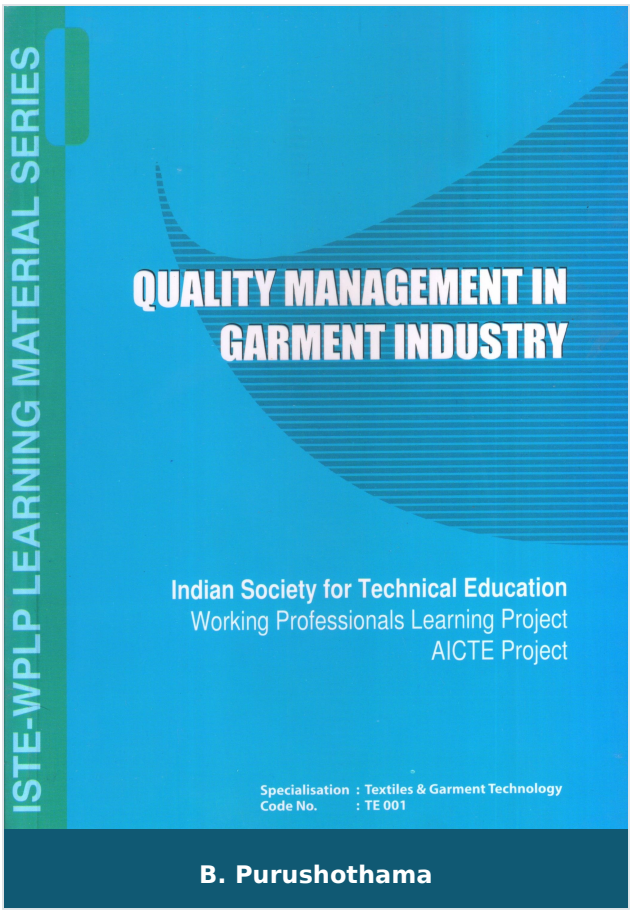
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Quality Management in Garment Industry

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Product Description

The growth in the industry might be due to many reasons. It might be because of inefficiency of our competitors, some changes in social environment, changes in the policies of the government, shortage of certain commodities due to improper planning or implementation of plans, etc. The garment industries in USA and Europe are presently facing many problems and are almost on the verge of closing. Research are rapid increases in wages, non-availability of qualified and skilled workers and monotonous work environment in the garment industry. The efforts made to reduce expenses could not be help to compete because of cheap availability of labour in developing countries of Asia and South America. The garment industry hence shifted to Asian Countries as Asia has an advantage of skilled artisans at low wages.

The industry scenario is changing. A number of new project are coming up. Thanks to the initiatives in IT and BT. All the new ventures must introduce the concept of Quality Management Systems so that quality of product is maintained, while cost of production is kept at minimum. This also holds good for existing small scale cottage industries as well as big industries.

In this book an attempt is made to give brief insight to various Quality Management Systems and how the same could be adopted in the garment industry. This learning materials is intended for managerial and technical staff working in Garment industry and students in Textiles and Garments Technology. It is hoped that this book will be quite useful for technical staff working in Garment industries to monitor and maintain the quality of the products before being shipped.

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- References

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