

SOFTWARE ENGINEERING DESIGN

D. Rama Lakshmi | R. Ramya | T.G. Ruby Angel



Software Engineering Design

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Product Description

Software Engineering Design Software Engineering Design is a comprehensive guide to the foundational discipline that dictates the success, scalability, and maintainability of all modern software systems. Recognizing that software design is at the heart of technological advancements, this essential resource transforms the complex challenges of system design into a structured, manageable process. Its core purpose is to bridge the gap between theoretical foundations and real-world applications, ensuring that readers gain both a vital conceptual understanding and practical expertise in creating robust software solutions. The book covers the entire spectrum of the software development lifecycle. It begins with an exploration of various Software Life Cycle Models—from linear methods like the Waterfall Model to adaptive Agile methodologies. The text then provides a deep dive into Requirement Engineering, focusing on crucial tasks like requirements modeling (DFD, ERD) and rigorous validation, before moving into the central System Design phase. Here, readers learn about popular architectural paradigms (Layered, Data-Centered) and objective metrics, such as Coupling and Cohesion, used to measure the "goodness" of a design. The content concludes with a focus on Testing & Quality Assurance (Verification and Validation) and key management aspects, including risk mitigation (RMMM) and project estimation (COCOMO). This text is specifically tailored for a broad audience: students beginning their academic journey, as well as experienced professionals and practitioners seeking to refine their design skills. By imparting technical knowledge and fostering a necessary design-oriented mindset, this book serves as an invaluable companion for building systems that are efficient, reliable, and sustainable. **Salient Features:**

- **Structured Life Cycles:** Explore fundamental Software Life Cycle Models (Waterfall, Spiral, Prototyping) and modern, iterative approaches like Agile methodologies to ensure efficient project management and successful risk mitigation.
- **Precise Requirements:** Details the systematic process of Requirements Engineering, covering elicitation, visual modeling (DFD, ERD), and rigorous validation to align the final product with core business and user needs.
- **Core Design Architectures:** Focuses on System Design principles, exploring essential architectural paradigms such as Layered Systems, Data-Centered Systems, and the critical transition from requirements analysis to a final blueprint.



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- Software Life
- Requirements Engineering
- Software Design
- Testing
- Umbrella Activities & Project Management and Estimation

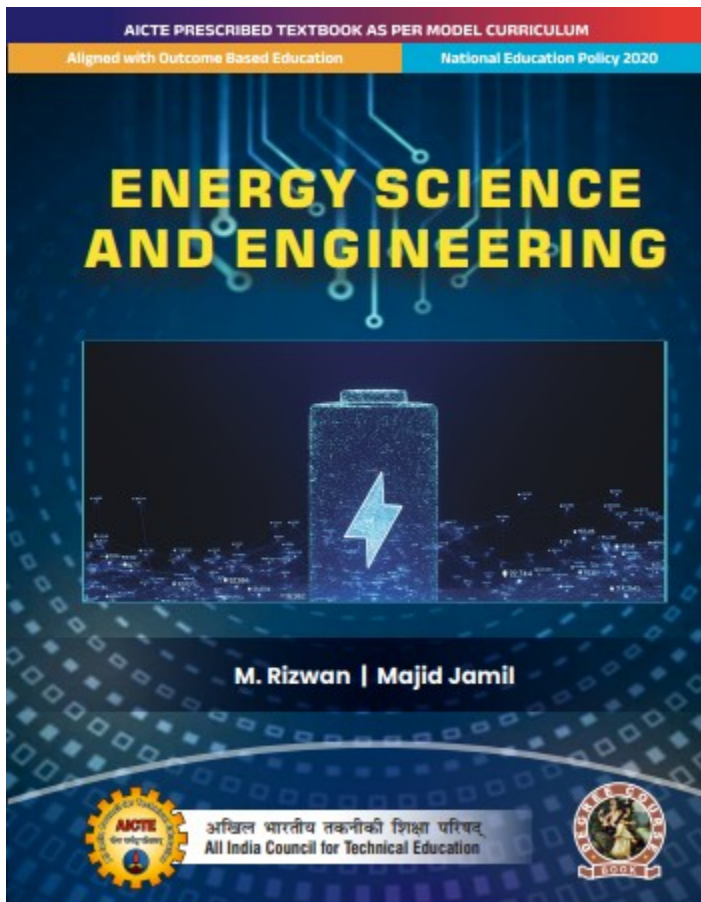
Author

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Energy Science and Engineering

Author :	M. Rizwan
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Product Description

Energy Science and Engineering This book has been designed for second-year students of undergraduate students in the engineering program. It will prove to be a valuable source for practicing engineers and faculty members. The book is divided into seven units and provides all the necessary information on an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field with an emphasis on alternative energy sources, their technology and applications. This book will provide an opportunity to explore society's present energy needs and future energy demands, examine conventional energy sources and systems including fossil fuels and nuclear energy. More focus of this book is on renewable energy sources, sustainability, and the environment. Clean energy technologies and their importance in sustainable development, carbon footprint, energy and environment, trade and research policy, future energy use that can be influenced by the economics, linkage between economic and environmental outcomes are discussed by including the latest available statistical data. This book also covers topics on civil project development for creating energy infrastructure. Concepts of green building and green architecture, energy auditing and energy enterprises with some practical examples are presented in easy language to understand the fundamental concepts. It is important to note that in all the units, dynamic QR codes are provided to collect additional knowledge on the specific topic. 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



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Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines For Teachers Guidelines For Students Abbreviations and symbols List Of Figures List of Tables

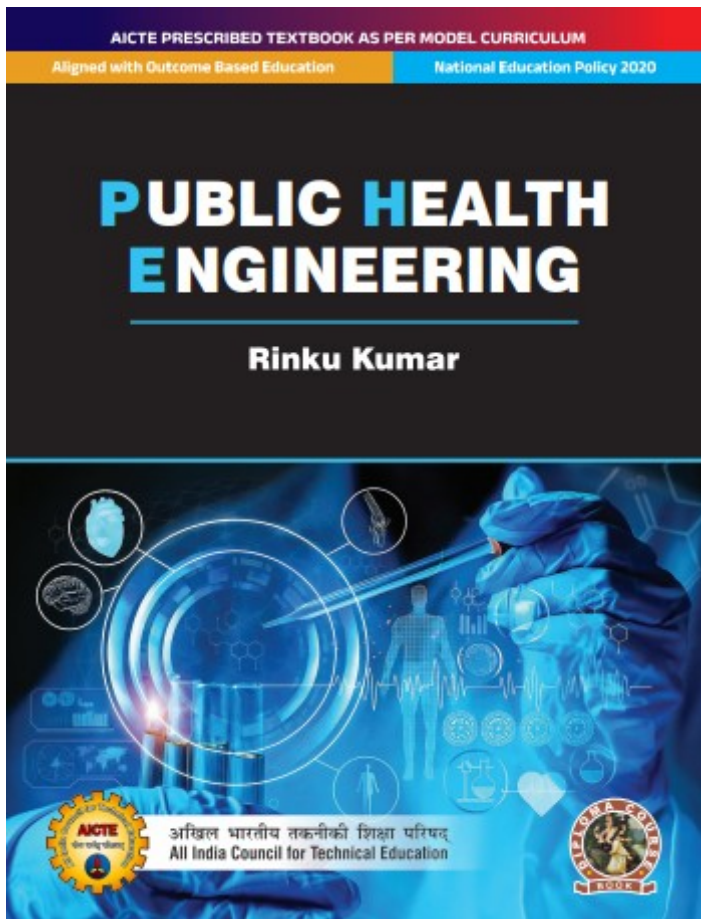
- Introduction to Energy Science
- Energy Sources
- Energy and Environment
- Civil Engineering Projects Connected with Energy Sources
- Building Structure for Nuclear Power Plants
- Engineering for Energy Conservation (Green Building and Green Architecture)
- Engineering for Energy Conservation (Energy Auditing, Efficiency & Energy Conservation)

Unit Summary Short and Long Answer Type Questions References and Suggested Readings

Author

M. Rizwan Professor Department of Electrical Engineering, Delhi Technological University, Delhi





Public Health Engineering

Author :	Rinku Kumar
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Product Description

Public Health Engineering This book familiarizes the students with the basics of public health engineering. The main aim of this book is to provide conceptual knowledge of techniques and processes for selecting water sources for domestic purpose and different treatment process related to treatment of sewage. These knowledge helps in deciding the water requirement of town or city. The main context of this book is aligned with the model curriculum of AICTE followed by the concept of outcome-based education according to the National Education Policy (NEP)2020.

Salient Features:

- The content of the book is aligned with the mapping of course outcomes, program outcomes and unit outcomes.
- At the beginning of each unit, unit outcomes are provided to help the students understand what is expected of them after completing the unit.
- The book consists of a lot of information about the sources of water for supply in town and make it easier to understand different sources to the students.
- The practical problems related to forecasting of population are discussed to enhance the understanding of the design period of different treatment units helps the field engineers.
- Different sewage techniques are discussed in details which helps the environmental engineering in deciding particular techniques based on characteristics of sewage.
- Some information about the latest IS code is also shared.
- QR codes are given in the book to access advanced information about the different topics.
- Solved numerical problems, short-answer, long-answer, and multiple-choice questions (MCQs) are given for practice at the end of each unit.

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- Sources, Demand and Quality of Water
- Purification or Water
- Conveyance and Distribution of Water
- Domestic Sewage and System of Sewerages
- Characteristics and Treatment of Sewage



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Author

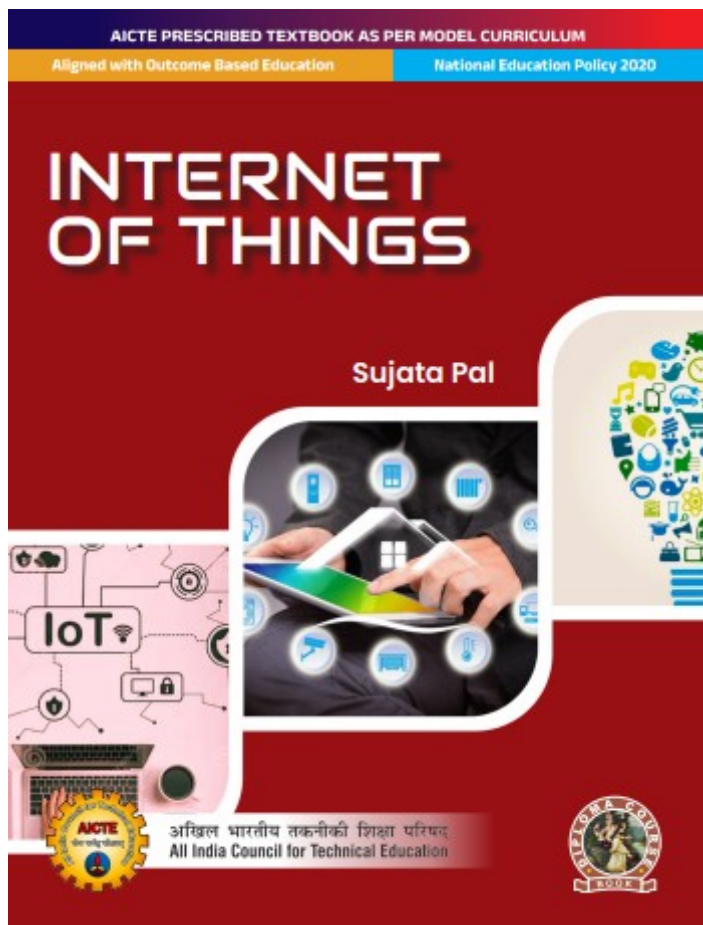
Dr. Rinku Kumar Lecturer, Department of Civil Engineering, Government Polytechnic Mankeda



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Internet of Things

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Product Description

Internet of Things This book offers a quick yet thorough introduction to the Internet of Things (IoT), covering its ideas, technologies, and applications. It covers IoT protocols, and device integration, with an emphasis on hands-on learning and real-world applications. Designed for students, educators, and professionals, it provides a clear path to learning and inventing in ever-changing IoT ecosystem. Salient Features:

- Explain the conceptual basis of the internet of Things, including its evolution, terminology, and basic frameworks.
- Sensors, actuators, communication protocols, and architecture are among the essential building pieces of the Internet of Things.
- A detailed description of popular IoT communication protocols such as MQTT, CoAP, LoRaWAN, and ZigBee.
- Covers architecture frameworks like one M2M and the IoT world forum to ensure smooth integration.
- Examples of Internet of Things application include smart cities, healthcare, agriculture, and industrial automation.
- Real-world use cases range from smart lighting systems to predictive maintenance in industries.
- Investigates ethical and regulatory considerations for constructing IoT systems.
- Structured to achieve specific program Outcomes (POs) and Course Outcomes (COs).
- Unit-specific learning goals are connected with Blooms Taxonomy to promote skill development.

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- Fundamentals Of Internet of Things
- IoT Communications Protocols
- Arduino Programming
- Implementation Of IoT with Raspberry Pi
- IoT Application with Case Studies

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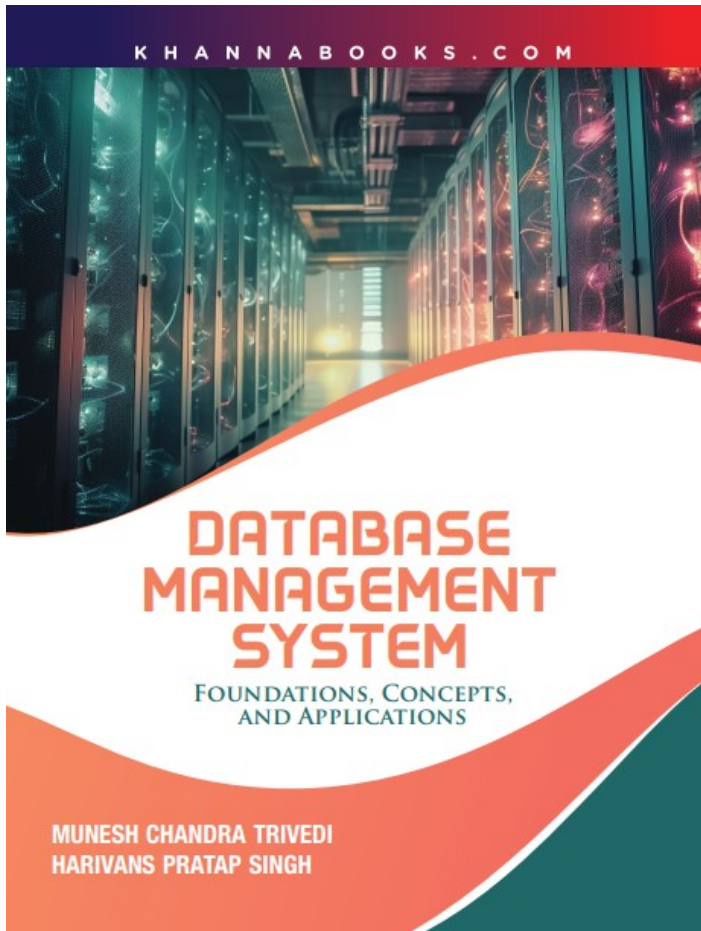
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Database Management System(Foundations, Concepts, And Applications)

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Product Description

My Book of Database Management System” is a complete and structured guide to the principles and applications of DBMS, designed for a wide audience—from undergraduate students to professionals preparing for GATE, IT MNC interviews, and real-world data system design. This book provides a deep, yet accessible exploration of database theory, architectures, query languages, transaction management, and modern trends in distributed and NoSQL systems. Aligned with the syllabi of leading engineering colleges and global universities, it combines academic precision with industry-relevant insight, making it ideal for both learning and long-term reference. KEY FEATURES OF THE BOOK

- Comprehensive Coverage
- Conceptual Clarity with Practical Insight
- GATE and Interview Ready
- Hands-On Approach
- Step-By-Step Explanation of Core Topics
- Modern and Emerging Topics Included
- Visually Supported Learning
- Code-Level Understanding
- Academic and Industrial Blend
- Revision-Friendly Format
- Ethical and Secure Data Management

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1. INTRODUCTION
2. ER MODEL
3. INTRODUCTION TO RELATIONAL MODEL
4. FUNCTIONAL DEPENDENCY
5. NORMALIZATION

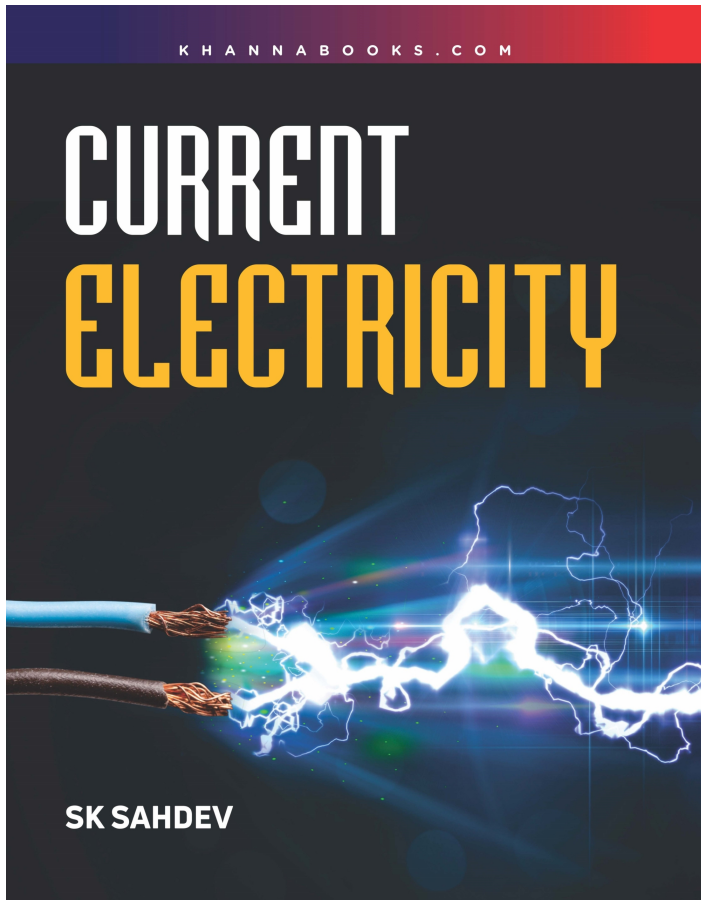


Author

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 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.

Harivans Pratap Singh Dr. Harivans Pratap Singh is a seasoned academician, technologist, and researcher with over 15 years of professional experience spanning academia and the IT industry. He holds a Ph.D. and M.Tech in computer Science and Engineering from Uttarakhand Technical University Dehradun U.K. India, and a B.Tech in Computer Science and Engineering from Uttar Pradesh Technical University Lucknow U.P. India. He has authored over 30 research papers, including 5 SCI-indexed and 12 Scopus-indexed publications, along with numerous conference papers and book chapters. A published author of 3 books and several technical contributions, Dr. Singh is also a recognized innovator with 20 patents—10 granted-across India, Germany, and South Africa. Dr. Singh has represented India as an expert guest speaker at various national and international forums, contributing his insights into software testing, automation, and digital transformation. He holds certifications in ISTQB and RPA Development (UiPath) and possesses deep technical expertise in playwright with JavaScript, Selenium, Postman, Rest Assured, CI/CD pipelines, Appium, Azure, AWS, and other modern testing and development frameworks. His programming strengths lie in Java and JavaScript, and he is well-versed in both Agile and DevOps practices. Dr. Singh has worked with globally recognized firms such as KPIT Technologies (Pune) and coforge Ltd (Greater Noida). He is currently serving as a Digital Architect and Automation Lead at Sonata Software, Bengaluru, India. His project and domain expertise spans E-commerce, Infotainment, Automotive, Ai/ML, Learning Management Systems, Travel, and Insurance. Blending academic insight with hands-on industry experience, Dr. Harivans Pratap Singh continues to make significant contributions to research, innovation, and enterprise solutions on a global scale.





Current Electricity

Author :	S. K. Sahdev
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Product Description

CURRENT ELECTRICITY - SK SAHDEV TOPICS COVERED IN THE BOOK 1. CURRENT ELECTRICITY. 2. DC CURRENT. 3. ELECTRIC CELLS. 4. LIGHTING EFFECT OF ELECTRIC CURRENT. 5. CAPACITORS. 6. ELECTROMAGNETIC EFFECTS. 7. A. C. CIRCUIT.

Table of Contents

Chapter 1: Current Electricity. **Chapter 2:** DC Circuits. **Chapter 3:** Electric Cells. **Chapter 4:** Lighting Effect of Electric Current. **Chapter 5:** Capacitors. **Chapter 6:** Electromagnetic Effects. **Chapter 7:** A. C. Circuits. **Chapter 8:**



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Author

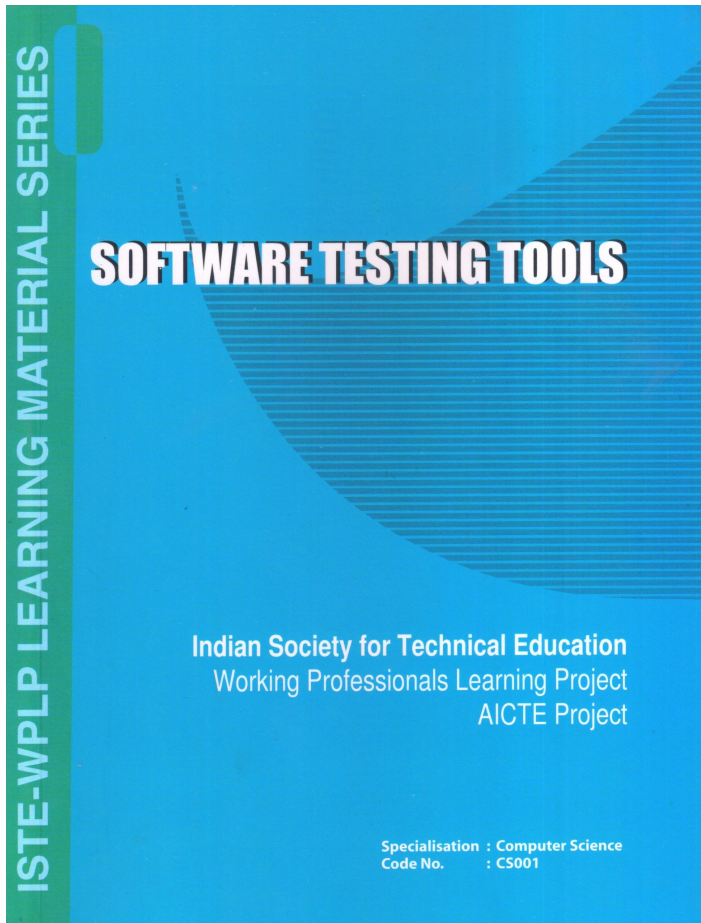
SK SAHDEV



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Software testing Tools

Author :	K. V. K. K. Prasad
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Product Description

I have gone through this interesting tutorial notes prepared by Dr. K V K K Prasad. Software testing is a topic Of great current interest to the software engineering community. Whether it is testing of a complex VLSI chip or software module, it is a challenging task and thus one encounters similar steps in the test process. Dr. Prasad starts with an interesting introduction to Software Quality Assurance, and briefly highlights the concepts underlying the Software Testing Process and Methodologies. An interesting introduction to Automated test tools makes it a good reading. Function/Regression testing tools and Load testing tools form important components in the test process and Dr. Prasad has presented these notions with adequate clarity. Various related issues such as Software Testing Process Management Tools and Configuration Management are covered quite systematically.



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PREFACE

Chapter 1: Overview of Software Quality Assurance.

Chapter 2: Software Testing Process.

Chapter 3: Software Testing Methodologies and Types of Testing.

Chapter 4: Test Case Generation

Chapter 5: Automated Test Tools: An Overview.

Chapter 6: Functional/Regression Testing Tools.

Chapter 7: Performance/ Load Testing Tools.

Chapter 8: Testing Web Applications.

Chapter 9: Source Code Testing and Configuration management/ Version Control.

Chapter 10: Software Testing Process Management Tools.

About author

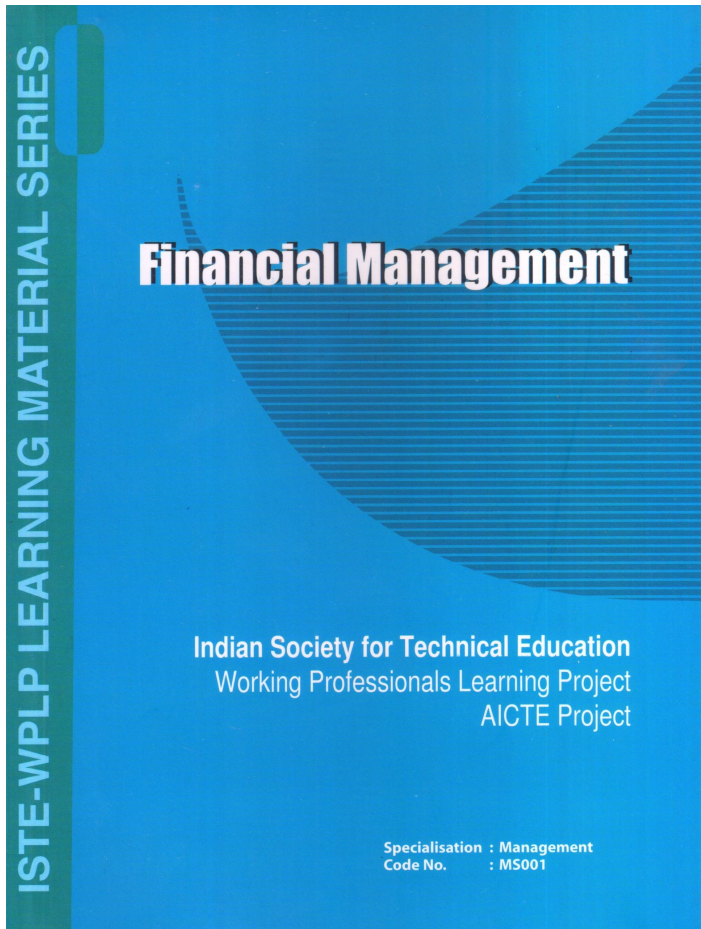
Dr. K V K K Prasad graduate in Engineering Electronics and Communications Engineering from the Andhra University. He did his M. Tech., in Satellite Communication and Remote Sensing and PhD in Automatic Generation and Recognition of Speech from Indian Institute of Technology, Kharagpur. He had brilliant academic records. His association with Telecommunication Industry spanned over two decades and served this industry in various key positions with great distinctions.



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Financial Management

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Product Description

The trend of current day Financial Management is to emphasized on overall managerial implication of a decision made than the decision making process itself. Through it is occasionally useful to put under a scanner the entire process of decision making. the managers are better advised to focus on the implications. Such is the focus of this reading material on Financial Management. This is a concise form of basic text in the area of Financial Management and assumes that, the participant has as basic level of knowledge in accounting and the financial markets. This reading material will accomplished the objective of both a basic addition to a financial management theory. The instructor who chooses to discuss the basic financial management theory will find this reading material especially appealing. Through this material is more of a miniature form of a financial management text book in provides clarity, in terms of various basic theories and aspects for a person new to tis arena. The entire material is divided into three modules. In the first module, the author introduces the subject of financial management and also discusses the time value of money concepts. In the second part of this material, the various characteristics of risk viz. systematic and unsystematic risk and their measurement is discussed. In addition, the various return models are also discussed. The basic portfolio selection and measurement of portfolio risk and return along with cost of equity are discussed in this module. The third module focuses on capital structure and divided policy. Various types of markets efficiency and their implications give the reader a sufficient idea about the markets. In this module the debt markets and the market signaling aspects are also discussed.

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PREFACE

Module I: Introduction & Time Value of Money.

Module II: Risk Return & Cost of Capital.

Module III: Capital Structure & Dividend Policy.

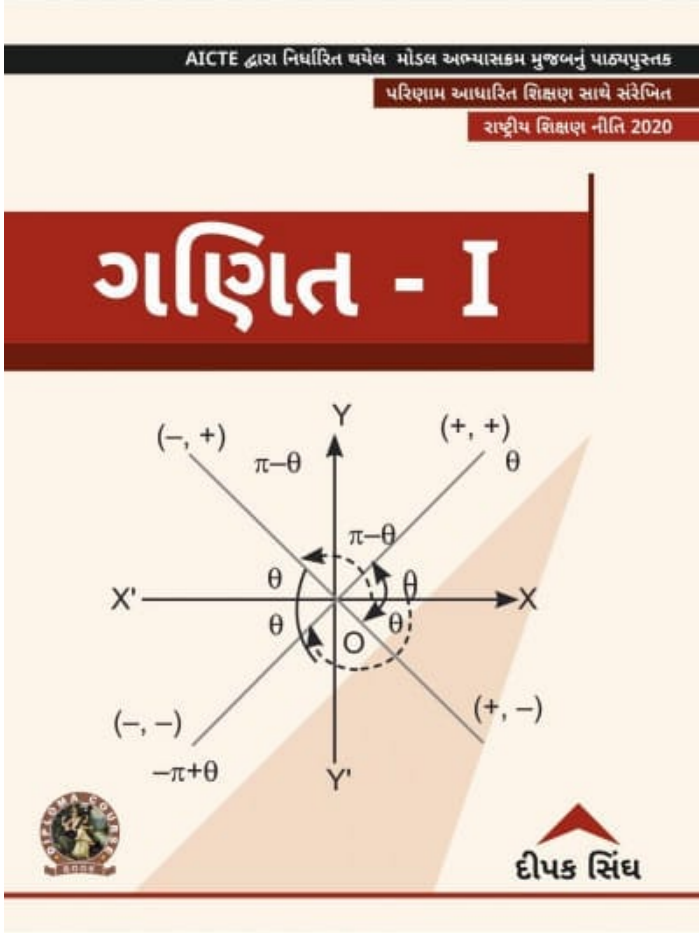
Reference



Author

Dr. G. Arun Kumar is Assistant Professor in the Department of Management Studies at Indian Institute of Technology Madras (IITM), Chennai. He obtained Bachelor's and Master's in Commerce from Bangalore. He took his Doctorate from the Department of management Studies, Indian Institute of Science, Bangalore. Arun has worked with the Economic Times, Management Development Institute at Gurgaon and Investment Information and Credit Rating Agency (ICRA), before joining IITM. He was also a Visiting Faculty in School of Management, Asian Institute of Technology, Bangkok. He is involved extensively in teaching and consulting for Investment Bankers, Multi-national Corporations and various public and private sector organizations on Valuations, Mergers and Acquisitions, Asset Liability Management. He has to his credit several published papers in leading international journals on Asset pricing and Event Studies. He teaches Financial Accounting, Management Accounting, Strategic Cost Management Mergers and Acquisitions and Investment to graduate students.





Mathematics-I

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Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education. Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension. Some salient features of the book: · Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. · Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc. · Students and teacher centric subject materials included in book with balanced and chronological manner. · Figures, tables and mathematical equations are inserted to improve clarity of the topics. · Short questions, objective questions and long answer exercises are given for practice of students after every chapter. · Comprehensive synopsis of formulae for a quick revision of the basic principles.

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Chapter 4: Complex Numbers and Partial Fraction.

Chapter 5: Permutation and Combination, Binomial Theorem.

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CO and PO attainment Table

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Author

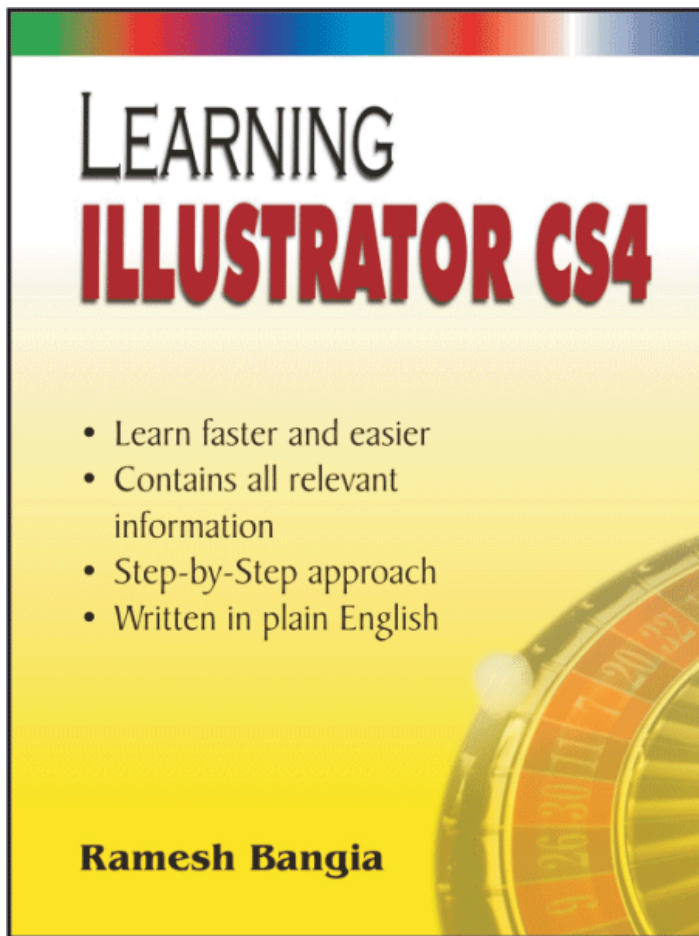
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Learning Illustrator CS4

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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. Illustrator CS4 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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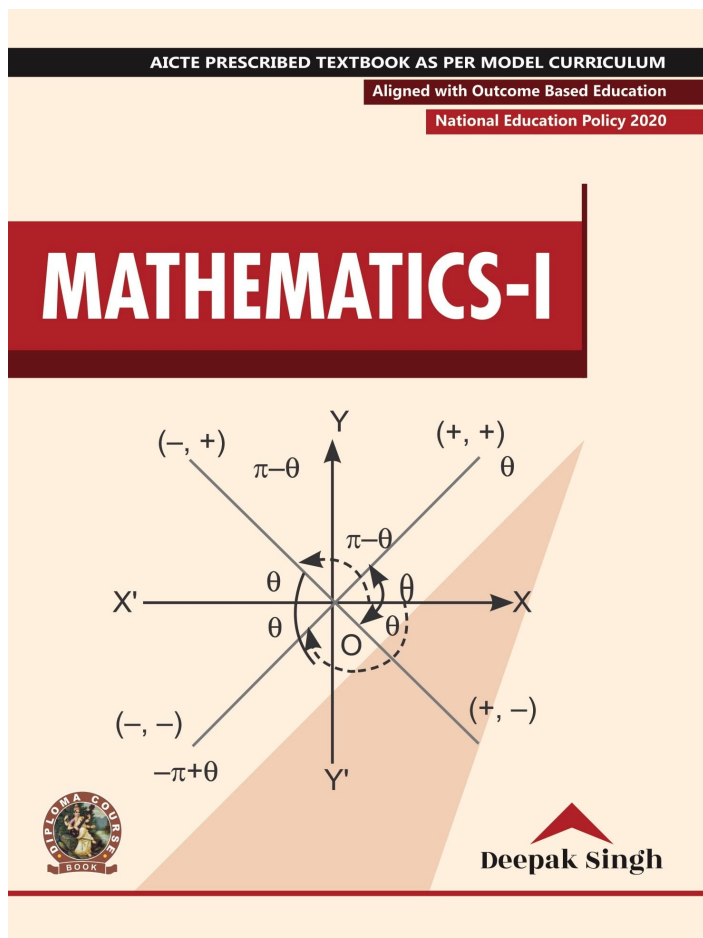
Table of Contents

Chapter 1: Getting to know Illustrator CS 4. **Chapter 2:** Tools of Illustrator CS 4. **Chapter 3:** Handling text in Illustrator CS 4. **Chapter 5:** More Commands of Illustrator CS 4. **Chapter 6:** Keyword Shortcuts of Illustrator CS 4. **Chapter 7:** Questions.

Author

Ramesh Bangia For the last fifteen years, 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.





Mathematics I

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Language :	English
Publisher :	Khanna Publishing House
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Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education. Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension. Some salient features of the book:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.
- Students and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables and mathematical equations are inserted to improve clarity of the topics.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Comprehensive synopsis of formulae for a quick revision of the basic principles.



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