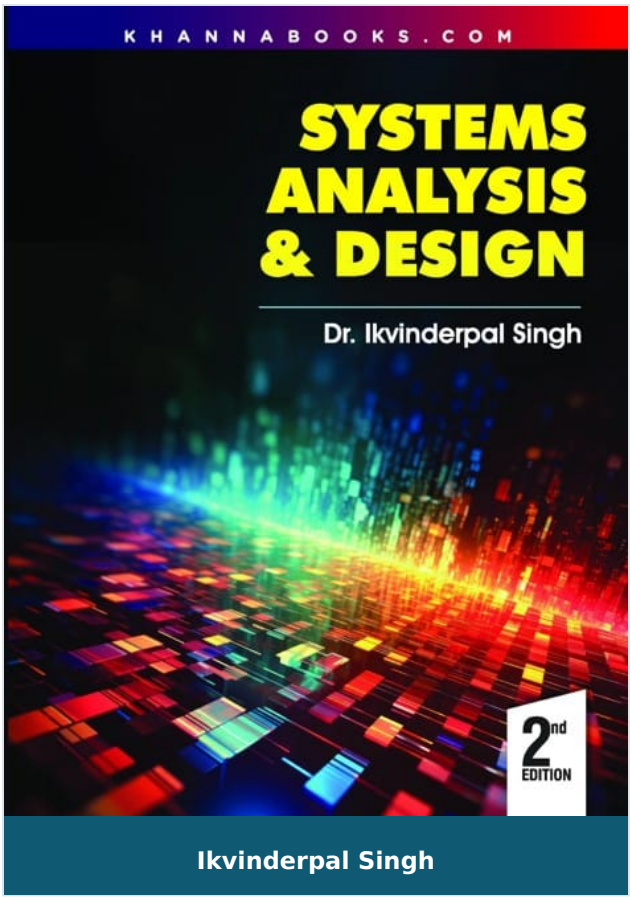

Ikvinderpal Singh

Systems Analysis and Design

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Product Description

Systems analysis and design (SAD) in an exciting, active field in which analysts continually learn new techniques and approaches to develop systems more effectively and efficiently. However, there is a core set of skills that all analysts need to know no matter what approach or methodology is used. All information system projects move through the five phases of planning, analysis, design, implementation and maintenance; all projects require analysts to gather requirements, model the business needs, and create blueprints for how the system should be built; and all projects require an understanding of organizational behavior concepts like change management and team building. This book captures the dynamic aspects of the field by keeping students focused on doing SAD while presenting the core set of skills that we feel every systems analyst needs to know today and in the future. It also builds on our professional experience as systems analysts and on our experience in teaching SAD in the classroom.

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- System Development Life Cycle
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- Feasibility Study
- Information Gathering
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- System Analyst
- Input & Output Design
- System Design: Modular Approach
- System Design:Structured Approach
- Object-Oriented Design
- User-Interface Design
- Coding & Documentation
- System Testing
- System Testing Strategies
- System Quality
- System Maintenance & Supports Users

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

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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.

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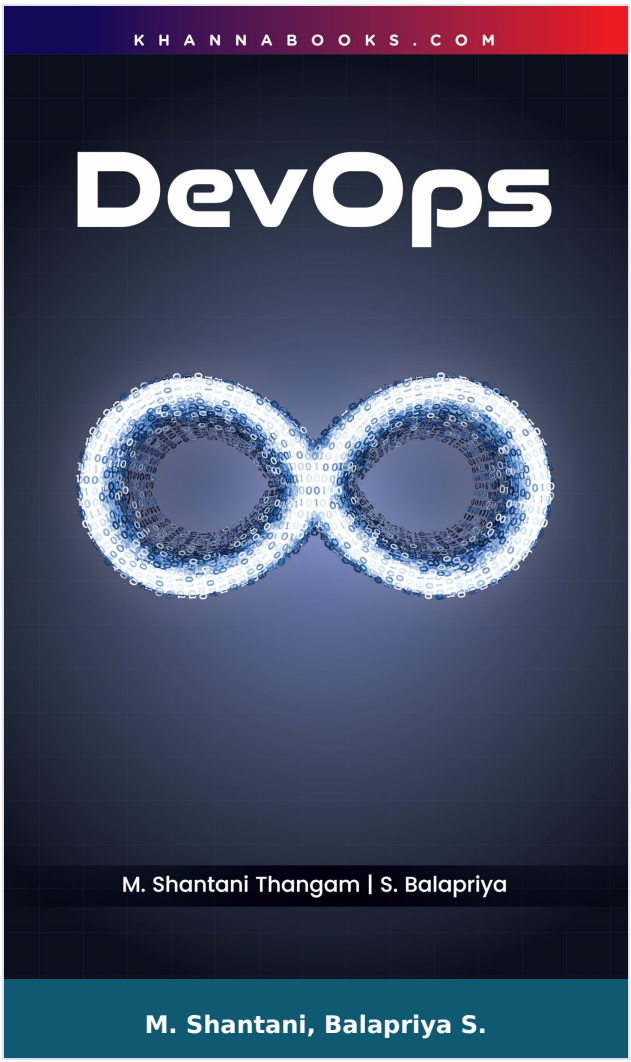

Devops

Author :	M. Shantani, Balapriya S.
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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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- Deployment and Monitoring Tool

Author

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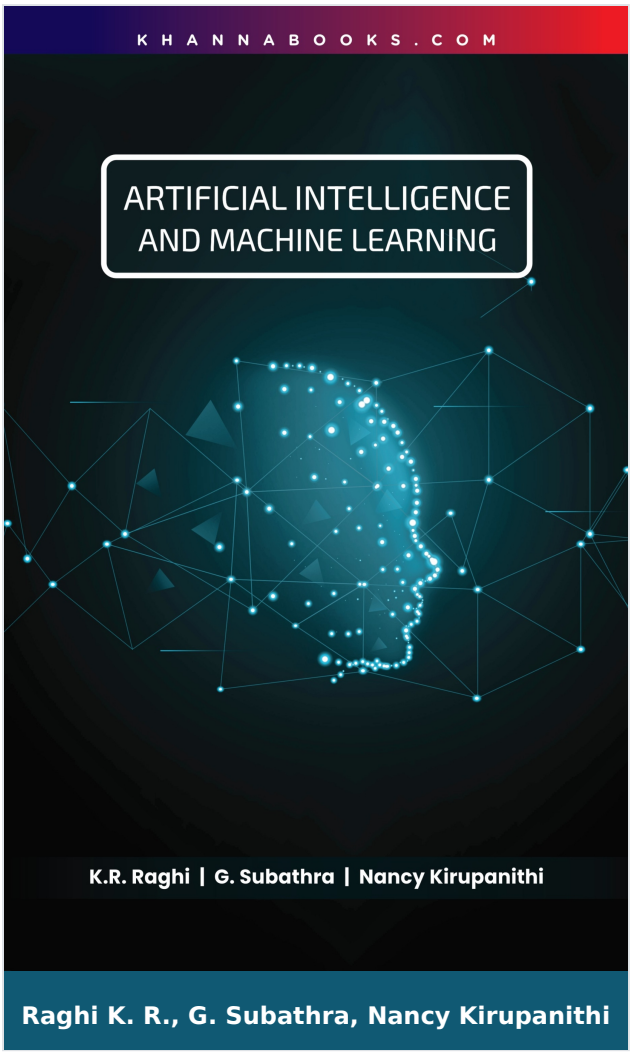

Artificial Intelligence and Machine Learning

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Product Description

Artificial Intelligence and Machine Learning serves as a comprehensive and indispensable guide to two of the 21st century's most transformative fields. Recognizing the remarkable growth of AI and ML, which influences nearly every aspect of modern life—from self-driving cars and virtual assistants to healthcare diagnostics and financial forecasting—this book is designed to provide a structured approach to mastering these complex technologies.

The core purpose of this text is to bridge the gap between theoretical foundations and practical implementations. It begins by establishing the fundamental concepts of Intelligent Agents, their structure, and their decision-making processes, followed by a thorough exploration of uninformed and heuristic search strategies like A* search and optimization methods such as Simulated Annealing. The book then transitions to the heart of learning systems, covering essential Supervised and Unsupervised Learning paradigms, Neural Networks, and techniques to mitigate deep learning challenges like the Vanishing Gradient Problem. Crucially, it dedicates an entire unit to the Design and Analysis of ML Experiments, teaching readers how to validate models rigorously using K-Fold Cross-Validation and statistical tests.

This resource is tailored for a diverse audience, including students, aspiring data scientists, software engineers, and academic researchers, providing the valuable insights necessary to foster innovation and shape the future of intelligent systems. It simplifies daunting topics through easy-to-understand explanations, supplemented by real-world examples and case studies, making AI and ML accessible to all levels of expertise.

Salient Features:

• Intelligent Agent Core: Define the core components and types of intelligent agents (Simple Reflex, Model-Based, Goal-Based, Utility-Based), and analyze their structure and

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decision-making processes.

• Advanced Search Methods: Explore heuristic search (A*) and optimization techniques like Hill Climbing and Simulated Annealing for navigating complex, large-scale problem spaces.

• Learning Paradigms: Detailed coverage of Supervised and Unsupervised Learning, along with the principles of PAC Learning and handling Model Selection and Generalization.

• Deep Network Architectures: A unit dedicated to Neural Networks, explaining Multilayer Perceptrons and addressing deep learning challenges like the Vanishing Gradient Problem with solutions like ReLU and Dropout.

• Optimization Techniques: In-depth exploration of network training using Gradient Descent and Error Backpropagation, covering advanced optimization methods like Stochastic Gradient Descent for efficiency.

• Experimental Design: Essential unit on the rigor of ML development, including guidelines for experiments, K-Fold Cross Validation, Bootstrapping, and using statistical tests for model comparison.

• Real-World Applications: Illustrated examples of ML in practice, including Self-Driving Cars, Healthcare Diagnosis, and Personalized Recommendation Systems, showing technology's transformative impact.

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- Problem Solving
- Introduction to Machine Learning
- Natural Networks
- Design and Analysis of Machine learning Experiments

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Applied Chemistry (with Lab Manual)

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Product Description

This text book of “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.

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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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- Water
- Engineering Materials
- Chemistry of Fuels and Lubricants
- Electro Chemistry

Author

Anju Rawlley

Anju Rawlley Devdatta Vinayakarao Saraf

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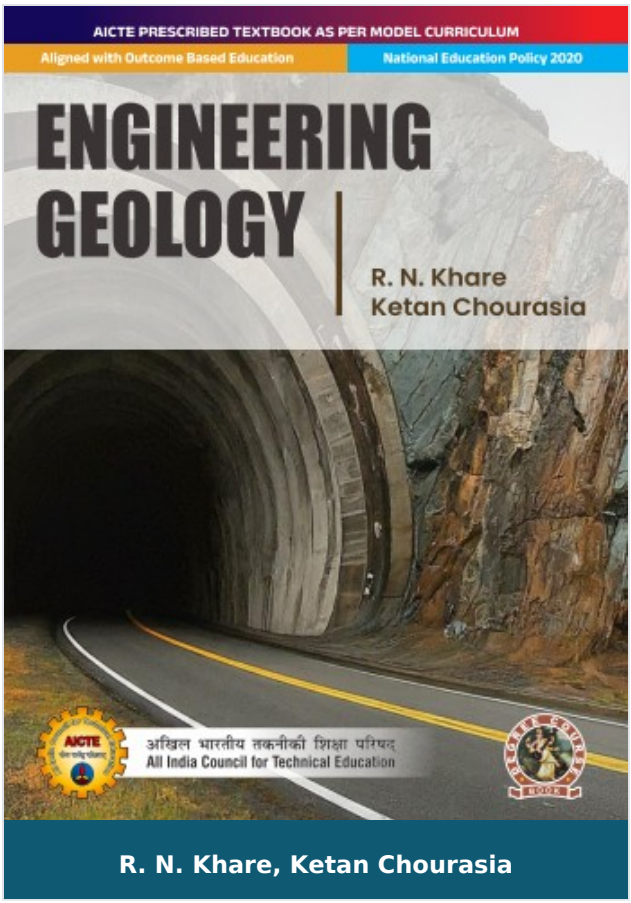

Engineering Geology

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Product Description

Engineering Geology

The book titled “Engineering Geology” is an outcome of the rich experience of our teaching of basic Engineering Geology courses. The initiation of writing this book is to expose applied science to the civil, mining and metallurgical engineering students; the fundamentals of geology will enable them to get an insight of the subject. Keeping in mind the purpose of wide coverage as well as to provide essential supplementary information, we have included the topics recommended by AICTE, in a very systematic and orderly manner throughout the book. Efforts have been made to explain the fundamental concepts of the subject in the simplest possible way.

Salient Features:

- **Comprehensive Coverage**: Provides a thorough understanding of engineering geology principles, vital for tackling real-world challenges.
- **Practical Applications**: Bridges theory with practice, equipping students with the skills needed to address geological issues in professional settings.
- **Visual Enhancements**: Rich with illustrations, diagrams, and photographs to facilitate deeper comprehension of geological concepts.
- **Case Studies**: Offers real-life examples and case studies to contextualize theoretical knowledge and enhance learning.
- **Exercises and Assessments**: Includes a variety of exercises and assessments to reinforce learning and gauge understanding.
- **Know More**: Designed to supplement information beyond the syllabus for the beneficial of users of the book.

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- Geophysical Investigations in Civil Engineering
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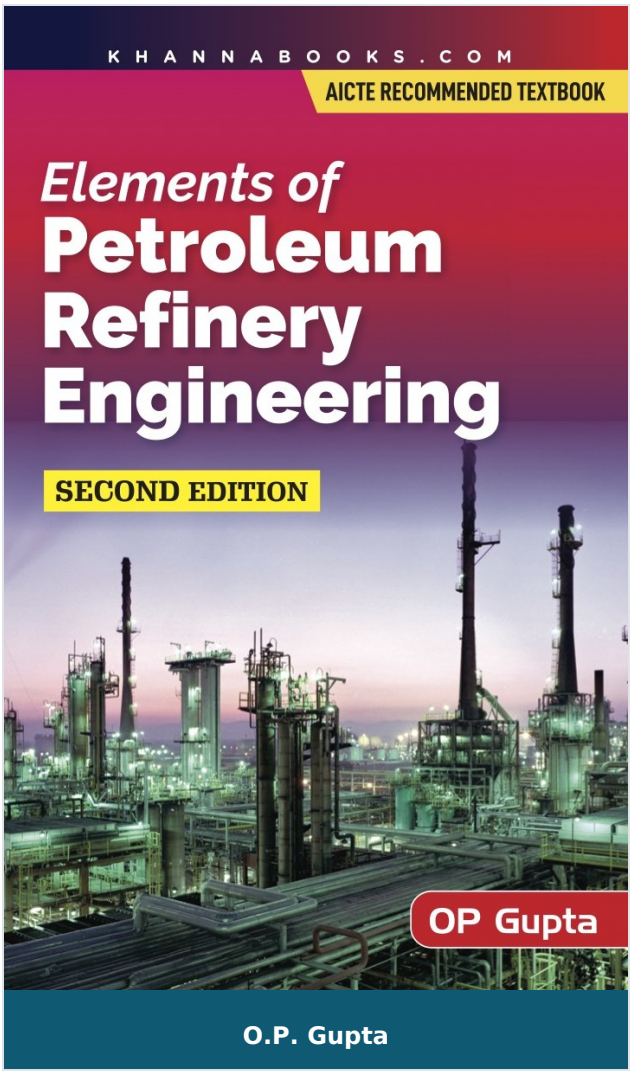

Elements of Petroleum Refinery Engineering

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Product Description

This book is prepared in a simple, lucid &easy understandable language with special emphasis on crude oil refining technologies and scenario in Indian context. This book is meant for the students, teachers, practicing engineer, consultants and policy makers on petroleum refining. Extensive use of Internet resources has been made in gathering the relevant information and the subject matter has been presented in a simple lucid manner for easy understanding of the subject.

This book is targeted to benefit the following:

1. Diploma in engineering students.

2. Degree in engineering students (B. Tech (Chemical Engineering,) B. Tech (Petroleum Engineering, B. Tech (Petrochemical Engineering), B. Tech (Aeronautical Engineering), AMIE, AMIICHE, Students etc.

3. Tech students of various disciplines pursuing courses on petroleum refining.

4. Faculty members/ Teaching staff of Engineering colleges/IIT’s/NIT’s etc.

5. Practicing petroleum engineers/consultants/refiners in various private sector/ public sector undertakings, state/ central government departments, NGO’s etc.

6. Students of foreign universities of developing countries pursuing diploma/ degree/ postgraduate courses in various engineering disciplines having a paper in petroleum refinery engineering.

7. The scope and coverage of the subject matter presented can be gauged from glancing the contents portion of the book to judge its suitability and relevance for a particular target group.

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Author

O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T

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kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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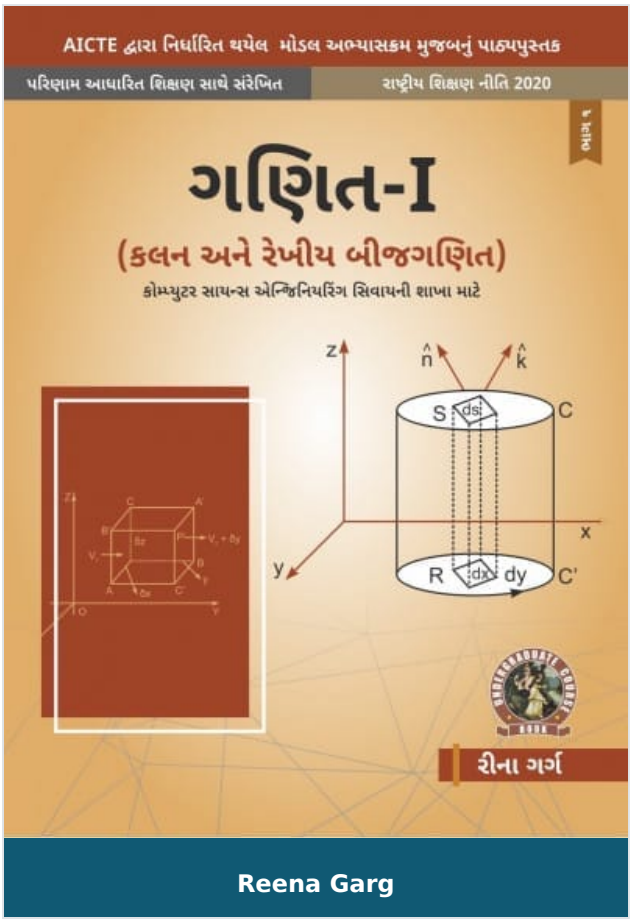

Mathematics - I (Calculus and Linear Algebra) For Non-Computer Science Engineering Branches

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Product Description

Calculus, Multivariable Calculus and Linear Algebra covers all the Modules prescribed by AICTE. Model curriculum to all the 1st year students (except CSE) studying in engineering institutions and universities of the country. It serves as both text book and / or useful reference work. It contains 5 units which include calculus, matrices, sequences & series and multivariable calculus along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that helps in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE, this book is in student friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of Questions in this book have been designed to success the reader understands of the subject. Professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book:

· In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.

· Emphasis on the applications of concepts and theorems.

· Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.

· A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student’s practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the

student’s capability, to increase the feeling of team work.

· To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible.

· Some standard problems with sufficient hints have been included in each exercise to gauge the student’s visual understanding and for grasp the theory.

· Video links, interesting facts, uses of ICT also included after each topic in every unit for easy understanding of the readers. Also included the pictorial representations of many topics for fast and permanent grasping of the content.

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- Calculus-II
- Sequences and Series
- Multivariable Calculus –I
- Matrices
- Index
- CO and Po Attainment Table.

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Dr. Reena Garg , M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers.She has published more than 10 research

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papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

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Mathematics-I (Calculus and Linear Algebra) for Non Computer Science Engineering Branches

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Product Description

Calculus and Linear Algebra covers all the modules prescribed by AICTE model curriculum to all the 1st year CSE students studying in engineering institutions and universities of the country. It serves as both text book and /or useful reference work. It contains 5 units which include calculus, algebra and vector spaces along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that helps in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE, this book is in student friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Professional or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book:

1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.

2. Emphasis on the applications of concepts and theorems.

3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.

4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student's practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the student's capability, to increase the feeling of team work

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5. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible.

6. Some standard problems with sufficient hints have been included in each exercise to gauge the student’s visual understanding and for grasp the theory.

7. Video links, interesting facts, uses of ICT also included after each topic in every unit for easy understanding of the readers. Also included the pictorial representations of many topics for fast and permanent grasping of the content.

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book more valuable for the knowledge seekers.She has published more than 10 research papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

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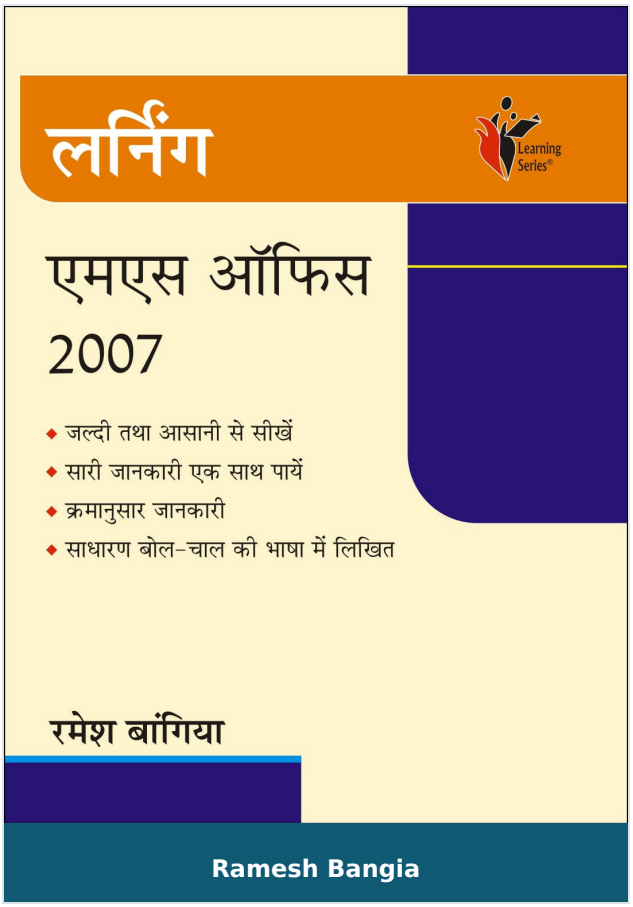

Learning MS Office 2007

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The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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- Keyboard Shortcuts of Microsoft Office 2007
- Questions

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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 Ease and African countries.

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Engineering Mechanics (with Lab Manual)

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Product Description

“Engineering Mechanics with Lab Manual” is a compulsory for the first year Diploma course in Engineering 7 Technology. Syllabus of this book is strictly align as per model curriculum of AICTE and academic content is amalgamate with the concept of Outcome based Education (OBE).

Book covers is five units- Basic mechanics & force system, Equilibrium, Friction, Centroid and Centre of gravity & simple lifting machine. Each unit written in every easy, systematic and orderly manner. Each unit contains a set of exercise at the end of each unit to test the student’s comprehension. Also in each unit the laboratory practical pertaining to unit is included.

Some salient features of the book:

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

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

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

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

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

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- Guidelines for Students,
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- Equilibrium
- Friction
- Centroid and Centre of Gravity
- Centroid and Centre of Gravity
- Appendix
- Index

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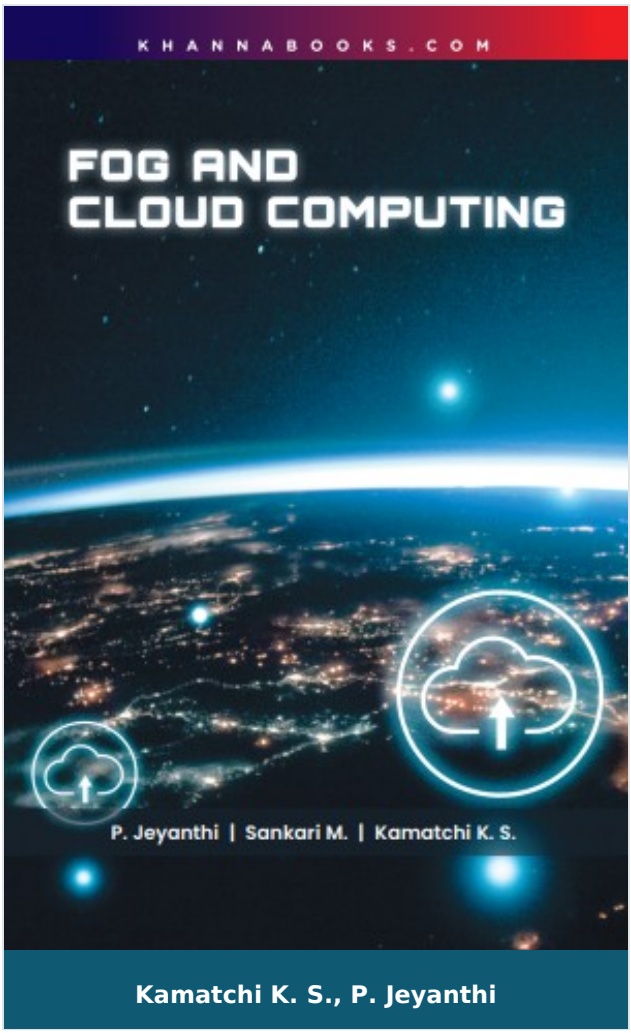

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Fog and Cloud Computing

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Product Description

Fog and Cloud Computing

This book serves as a comprehensive and essential guide to mastering the modern landscape of cloud and fog computing, two fundamental technologies reshaping the digital era. The core purpose of this text is to provide a robust understanding of Cloud Computing, exploring its history, characteristics, architectural framework, and the key benefits of virtualization. It thoroughly details the major service models—Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)—and analyzes the deployment models (Public, Private, and Hybrid Cloud) used by global players like Amazon, Microsoft, and IBM.

Crucially, the book extends this foundation into the emerging field of Fog Computing. Fog computing is presented as an indispensable, decentralized architectural layer that addresses the challenges of high latency and network congestion caused by the massive scale of Internet of Things (IoT) devices on traditional, centralized cloud systems. By covering cloud management, security strategies, and the transition to the edge network, this resource aims to bridge the gap between theoretical concepts and their practical, real-world applications. The target audience includes students, IT professionals, researchers, and technology enthusiasts seeking to leverage cloud infrastructure for innovation, digital transformation, and professional growth.

Salient Features:

- **Core Architectural Framework**: Provides a clear overview of cloud computing history, fundamental characteristics (e.g., scalability, multi-sharing), and the architectural components that enable robust cloud services.
- **Essential Service Models:** Dedicated coverage of the foundational service paradigms: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and

Software as a Service (SaaS), explaining their structure and real-world utility.

- **In-Depth Virtualization**: Details the need for and types of virtualization (hardware, OS), including deep dives into essential hypervisors like Xen, KVM, and Hyper V, and open-source cloud platforms like Eucalyptus.
- **Cloud Security & Governance**: Addresses critical challenges of cloud data management, data center tiers, and essential security protocols like multi-factor authentication, data privacy, and strategies for avoiding vendor lock-in.
- **Industry Landscape Analysis**: Analyzes the competitive landscape by profiling major cloud players (e.g., AWS, Microsoft, IBM) and detailing the advantages and disadvantages of Public, Private, and Hybrid Cloud deployment models.
- **Fog & Edge Integration**: Introduces Fog Computing as an extension of the cloud, detailing its unique architecture, benefits (low latency), and comparing it structurally and functionally to the traditional cloud model.
- **Real-World Fog Applications**: Focuses on the practical utility of Fog Computing in critical modern fields like Smart Cities, Smart Grids, and enabling real-time analytics for high-volume data from Self-driven Cars.
- **Simulation & Testing Tools**: Features an introduction to the role and architecture of Cloud Simulator (CloudSim) for evaluating a nd testing cloud applications before real-world deployment.

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- Fog Computing

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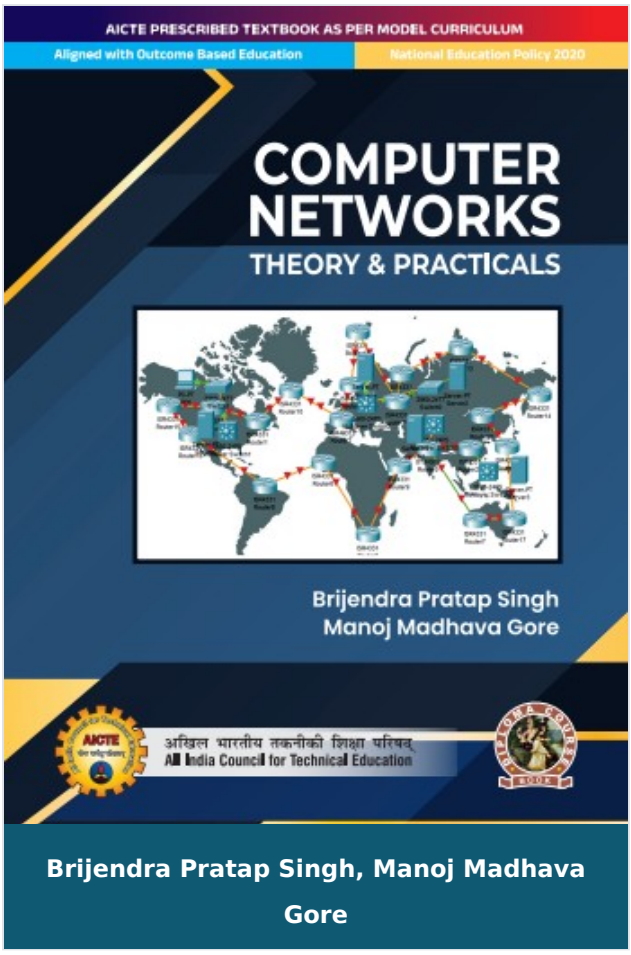

Computer Networks: Theory & Practicals

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Product Description

Computer Networks: Theory & Practicals

The use of network applications and the internet is increasing every day. It is desirable that each user should have elementary knowledge about the working of network applications and the internet. Moreover, the professionals are supposed to have and understanding of network application development. Network architecture, network protocols, and network management. This book elaborates on the network architecture, transmission media, network topologies, ethernet, WI-FI, routing algorithms, routing protocols, IPv4 addresses, transmission control protocol, application layer protocols, simple network management protocol, and related topics. Moreover, the book takes alongside the laboratory tasks, such as the configuration of devices, creation of wired and wireless local area network and others.

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.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.

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- 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

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