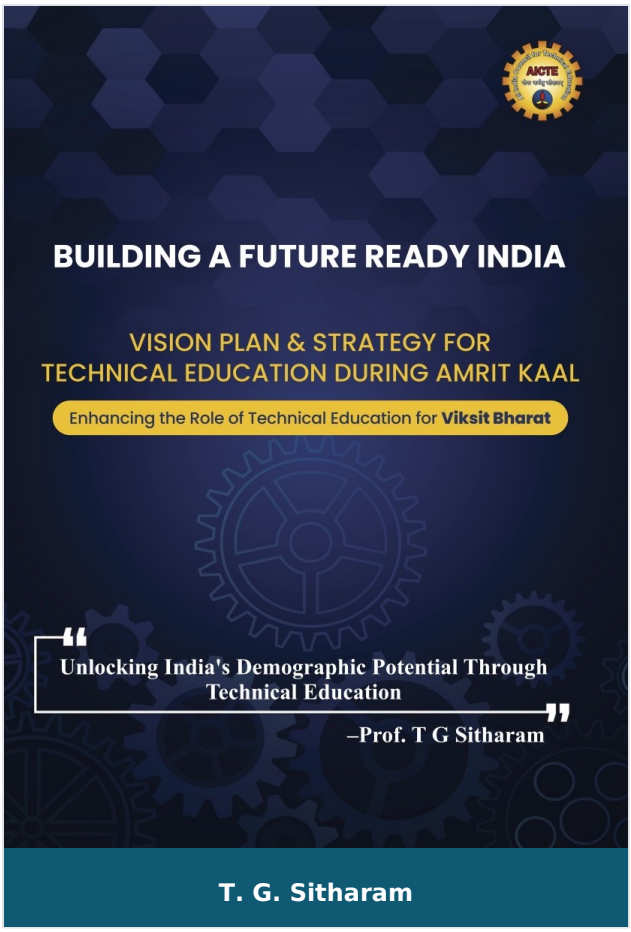

Building a Future Ready India

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Product Description

In the rapidly evolving landscape of technical education, the year 2047 stands as a pivotal juncture for India. Th is book delves into the transformational journey of technical education over the past few decades, offer insights on vision, plan and strategy for technical education in India, harness the potential of technical education in nation building and foresight into the innovations, challenges, and possibilities that have defined this dynamic era. The significance of technical education has soared to unprecedented heights in the last few years. India envisions a holistic Technical Education System that produces globally competitive skilled technical professionals. With the rise of artificial intelligence, quantum computing and sustainable engineering solutions, a paradigm shift is necessary to impart skill based knowledge and prepare future generations. This book is an attempt to understand the key elements of Technical Education which includes ‘Quality Education, Leveraging Technology, Integration of Skill in Curriculum, Promotion of R&D, Innovation in Pedagogy, Industry- Academia Collaboration etc. Drawing upon the collective wisdom of visionaries, educators, and pioneers in the field, this book endeavors to illuminate the transformative forces shaping technical education. It seeks to inspire educators, students, policymakers, and innovators alike to envision and concreate a future where learning is agile, inclusive, and empowers individuals to thrive in an ever-evolving world.

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- Conclusion.
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T. G. Sitharam is a civil engineer, professor at IISc Bangalore, former director at IIT Guwahati. Currently, he is serving as Chairman of the All India Council for Technical Education, (AICTE) from 1 December 2002 onwards. He is known for his works in the fields of rock mechanics, rock engineering geotechnical earthquake engineering. He is an

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elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

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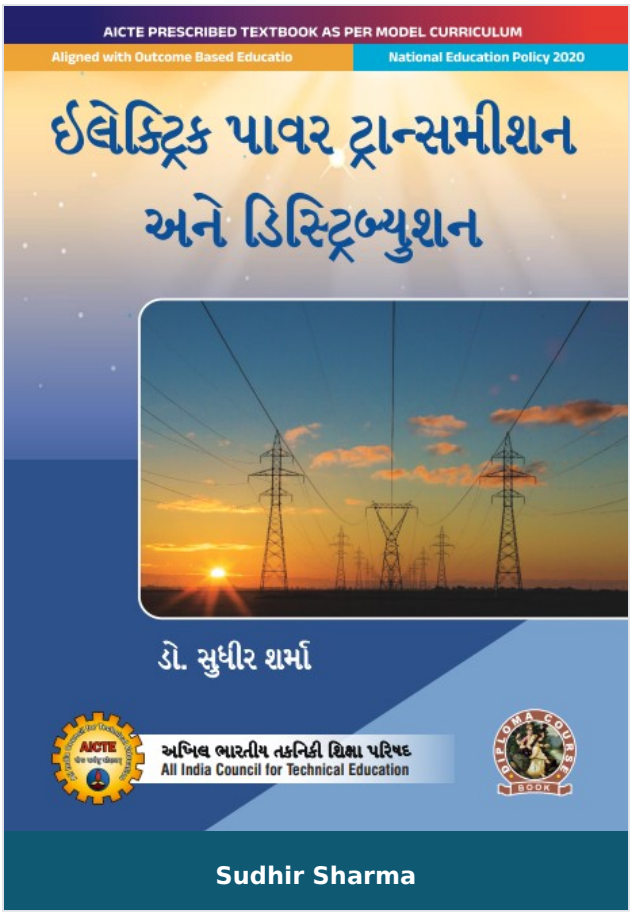

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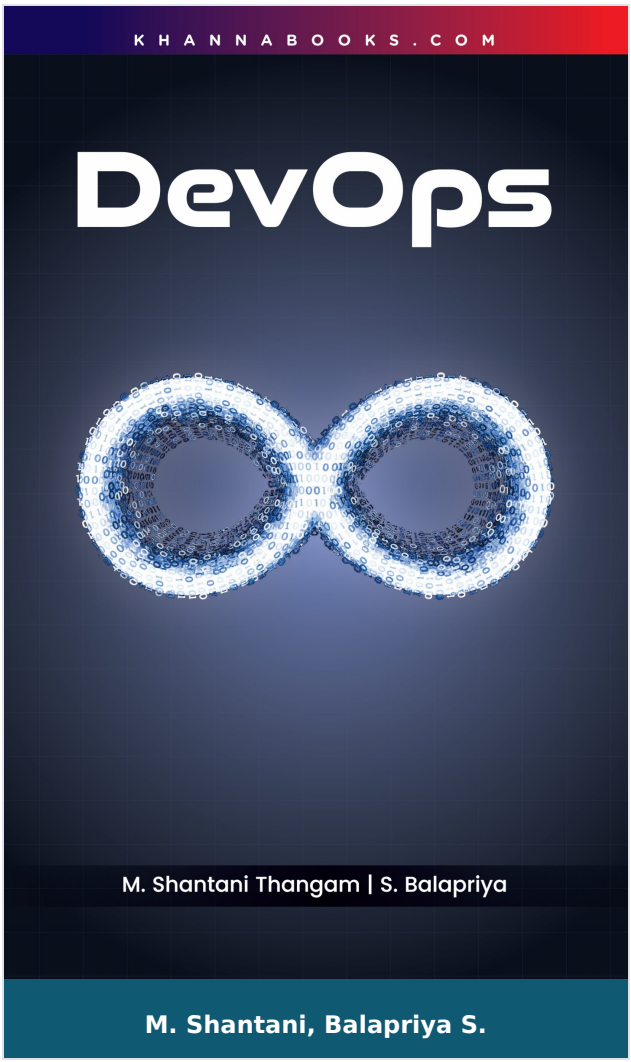

Devops

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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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- Cloud Computing and AWS
- GIT and Configuration Management Tool
- Deployment and Monitoring Tool

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Shanthi Thangam M. Balapriya S.

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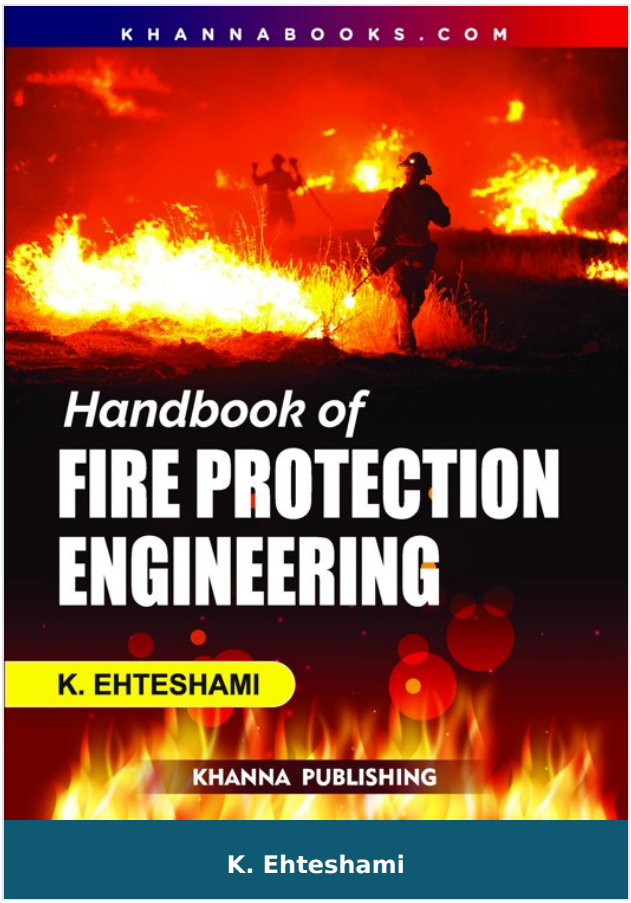

Handbook of Fire Protection Engineering

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Product Description

This book "Handbook of Fire Protection Engineering" in response to the need for an up-to-date practical handbook which I believe is highly useful in providing help for engineers, architects, contractors, colleges, universities, and regulatory agencies. The direct and complete presentation of materials in this handbook is especially useful in the design and installation of modern fire protection systems. Also, there is a chapter on explosion prevention which is highly useful in woodworking shops, munition making factories, etc. Each chapter in this book focuses on the major area of concern for fire protection professionals. The chapters are organized and presented in the order that is compatible with the engineering textbook.

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- Plant Safety and Fire Protection
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- Flame Retardant
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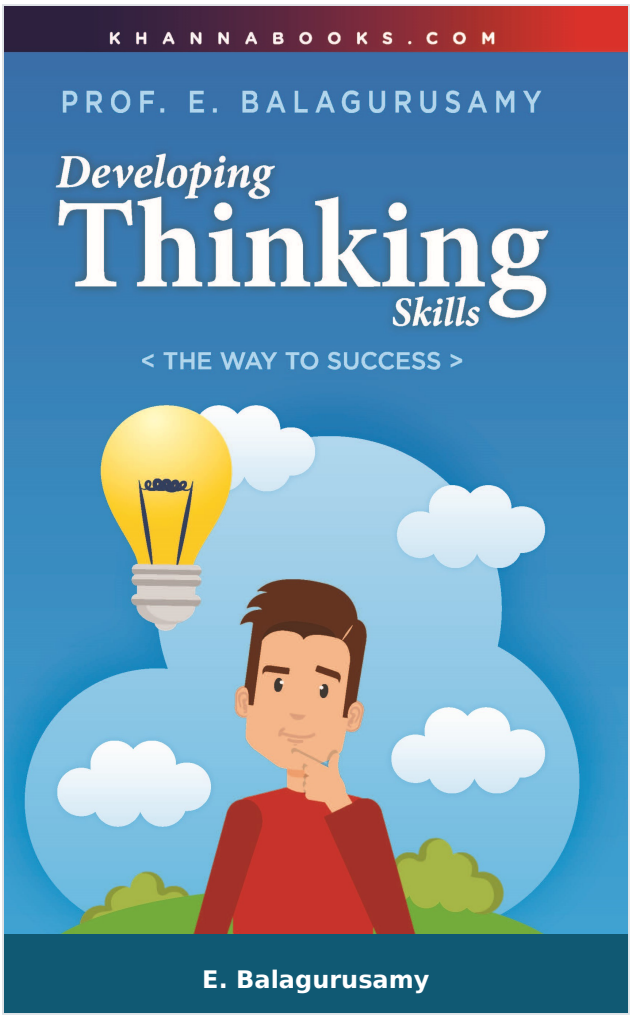

Developing Thinking Skills (The Way to Success)

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Product Description

Industries and business around the world are changing very fast as they are constantly disrupted with new technologies, new ideas and new approaches. It is therefore imperative for students to learn to manage the change that will inundate their lives. World organizations like world Economic Forum (WEF), International labor Organization (ILO), Organization for Economic Cooperation and Development (OECD) and International Society for Technology Development (ISTE) have recommended a number of skills that the 21st century youth must possess in order to succeed in their professional and personal lives. They include, among others, the following 7C thinking skills:

1. Creative Thinking

2. Critical Thinking

3. Computational Thinking

4. Competitive Thinking

5. Comprehensive Thinking

6. Communicative Thinking

7. Collaborative Thinking

This book is all about developing these skills among the readers. The book comprehensively covers all major aspects of thinking. It presents in a simple and lucid manner concepts, models, analysis and applications of various thinking styles. Wherever necessary, pictorial representations of concepts and models are provided to facilitate easy grasping and better understanding of the concepts discussed. This book focuses on “how to think rather than what to think”. Successful thinking is a mindset that enables us to reach our full potential and provides us with the mental discipline to create and achieve positive outcomes. By mastering thinking skills, we can learn how to think

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- Rational
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- Comparison
- of Thinking Styles

Author

E. Balagurusamy

E. Balagurusamy 1- Prof. E. Balagurusamy is currently the Chairman of EBG Foundation, Coimbatore. He served as a Member of High-Level Committee on School Education of Tamil Nadu Government and Chairman of Committee for Development of Text Books on Science and Technology in Higher Education. He also served as a member (Education). Planning Commission of Tamil Nadu Government. He was earlier a Member of Union Public Service Commission and Chairman of Consortium for Educational Communications, New Delhi and Vice Chancellor of Anna University, Chennai, the largest technical

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university in India. A prolific writer, he has authored more than 40 Books on IT and Computer, many of them are being prescribed as texts in Universities and Colleges throughout India. Some of his books have been translated into Mandarin, Spanish, Korean and Russian Languages. Prof. Balagurusamy, an ethical leader, philanthropist and recipient of numerous awards and honors, has established EBG Foundation, a Charitable Trust, to serve the socially and economically deprived sections of the society. His biography “Nermaiyin Payanam” (A Journey of Honesty) was released by Mrs. Nirmala Sitharaman, Hon’ble Minister of Finance, Government of India November,2019. He hold an ME(Hons) in Electrical Engineering, PhD in Systems Engineering, both from IIT, Roorkee and a Diploma in Education from U.K.

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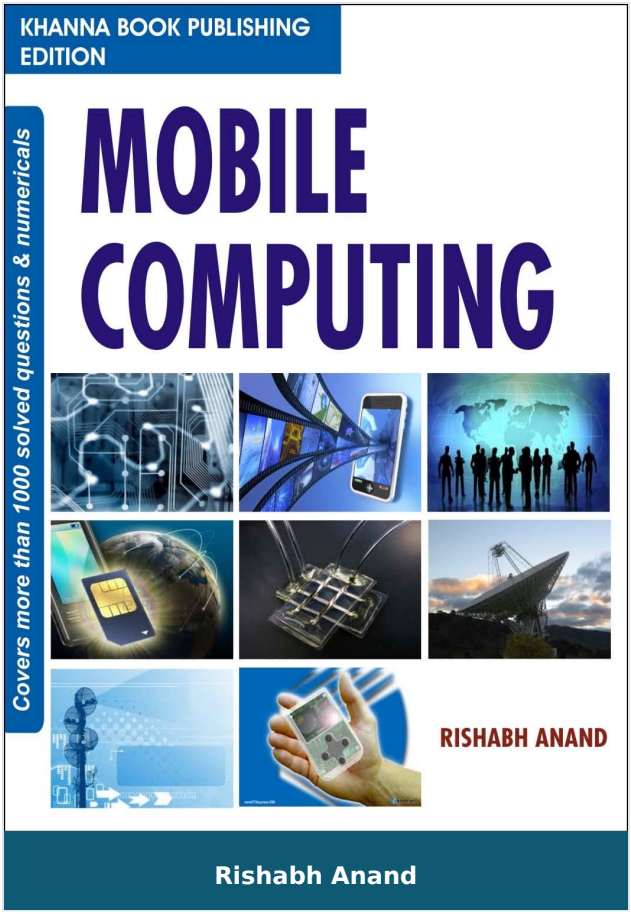

Mobile Computing

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Product Description

This book covers the complete latest syllabus of subject as suggested by most of the universities in India. Proper balance between mathematical detail and qualitative discussion. Moving from the unknown in a logical manner. At the end, a set of short answer questions and numerical are given for quick review of chapter concepts. Subject matter in each chapter develops systematically from inceptions. Large number of carefully selected worked examples in sufficient details. Most simplified methods used. Each chapter of the book is saturated with much needed text supported by neat and self-explanatory diagrams to make the subject self-speaking to a great extent. Simple and lucid style. No other reference is required. Ideally suited for self study.

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- Database Issues
- Data Dissemination
- Mobile AdHoc Networks (MANET's)
- Wireless Local Area Network
- Question Banks
- Solved Problems
- Bibliography

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Rishabh Anand received his Bachelor‘s degree B.E (Hons) in Electronics and Communication Engineering from Maharishi Dayanand University, Rohtak in 2006. The author is M.Tech. in Electronics and Communication Engineering from Veer Bahadur Singh Purvanchal University, Jaunpur in 2014, and MBA from Indian Institute of Management, Kozhikode in 2016. The Author is Program Diploma in Innovation Management from International Business Management Institute, Germany (Berlin) in 2020. The author has contributed to research publications in refereed, cited International Conferences and Journals, and attended many conferences, workshops, FDPs, and seminars. Also, he is the reviewer member of IJSDR Journal. He is a prolific author with 34 Text and Reference books to his credit, for B. Tech. (ECE/CSE/IT), M.Tech. (ECE/CSE/IT), BCA, MCA, and other

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courses of different Universities of India and overseas. His areas of interest include Software Project Management, Cloud Computing, Deep Learning, Tensor Flow, Python, R Programming and Machine Learning. He is currently working in ITES industry as a Global Service Delivery Manager. He is Project Management Professional (PMP)®, ITIL® Foundation Certificate in IT Service Management, PRINCE2® Practitioner Certification - Project Management, ScrumMaster® (CSM®), Certified Six Sigma White Belt (CSSWB™), Lean Six Sigma White Belt Certified (LSSWBC™) and Certified Six Sigma Green Belt™ (CSSGB™). The author delivers lectures as Visiting Faculty (Assistant Professor) in the Global Institute of Technology and Management, Farrukh Nagar, Gurgaon.

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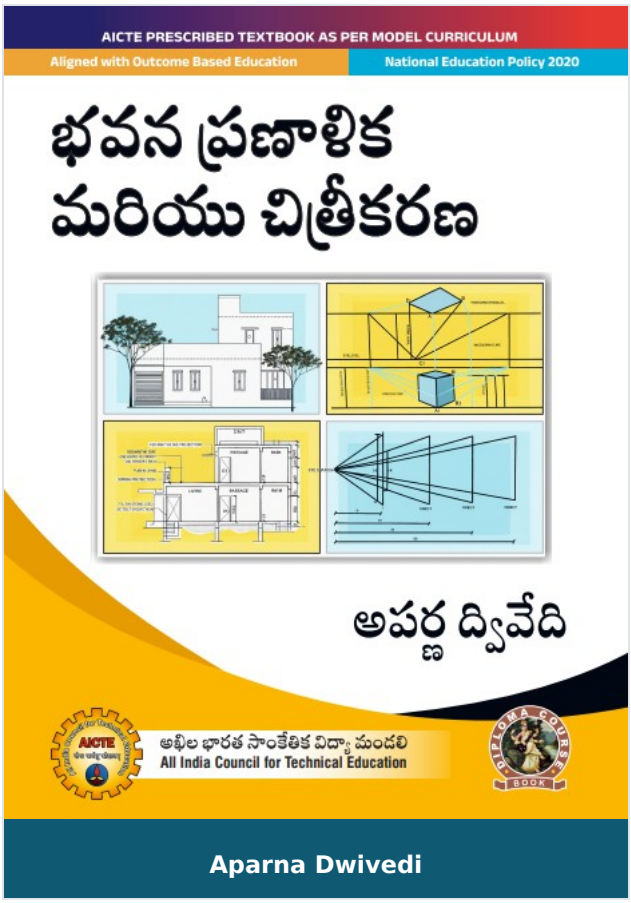

Building Planning and Drawing

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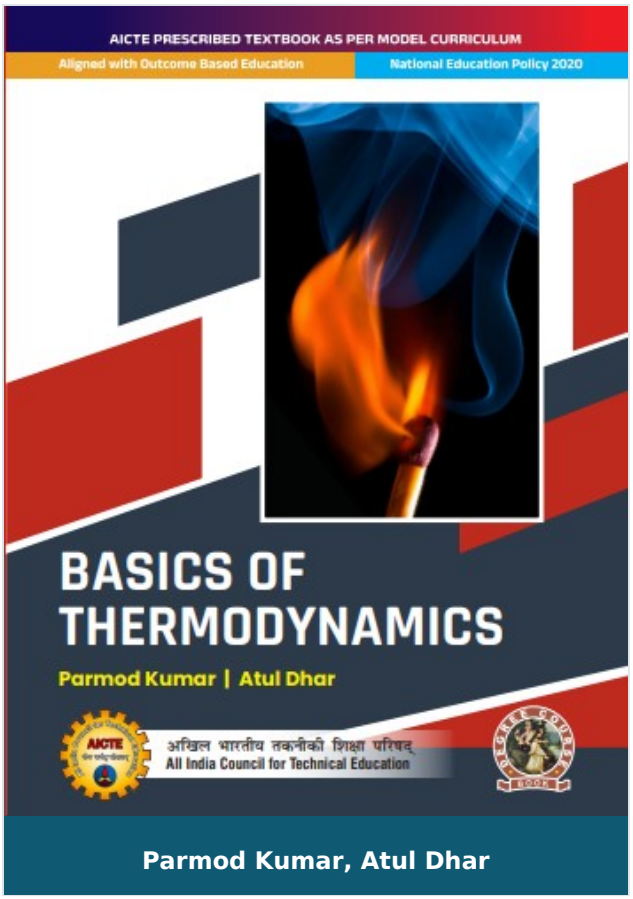

Basics of Thermodynamics

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Product Description

Basics of Thermodynamics

This book titled Basics of Thermodynamics introduces the subject from the theoretical concepts to its applications in different energy conversion devices. The content of the book is designed as per the model curriculum of AICTE and mandates of the National Education Policy (NEP) 2020. The content of the book is described in a manner that beginners can follow the concepts in comfortable and cohesive manner. The content of the book is developed for entry level undergraduate students; however, it can be used by practicing engineers and graduate students for the comprehensive learning of the subject.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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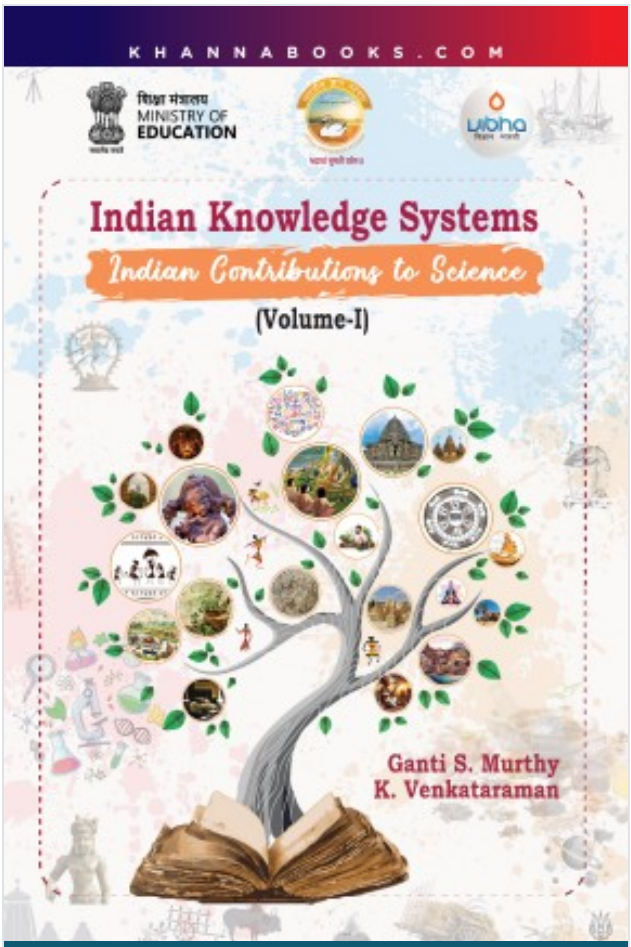

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Ganti S. Murthy

Prof. Ganti S. Murthy is a professor of Biosciences and Biomedical Engineering at the Indian Institute of Technology Indore. He serves as the National Coordinator for Indian Knowledge Systems (IKS), an initiative of the Ministry of Education, government of India, and is the founding Head of the center for Indian Scientific Knowledge Systems at IIT Indore. With a Ph.D. in Agricultural and Biological Engineering from the University of Illinois at Urban-Campaign, and prior tenure as a professor at Oregon State University,

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Professor Murthy brings a distinguished international research background to the study of traditional Indian agronomy. His scholarly work is focused on sustainable bioprocessing and the analysis of engineered systems, with a particular interest in the resilience of agro-ecological systems. He has played a pivotal role in numerous national committees, including those under the NCERT and UGC, aimed at incorporation IKS into educational curricula and policy. His research group is dedicated to developing sustainable solutions that are technically feasible, economically viable, and environmentally conscious.

K. Venkataraman

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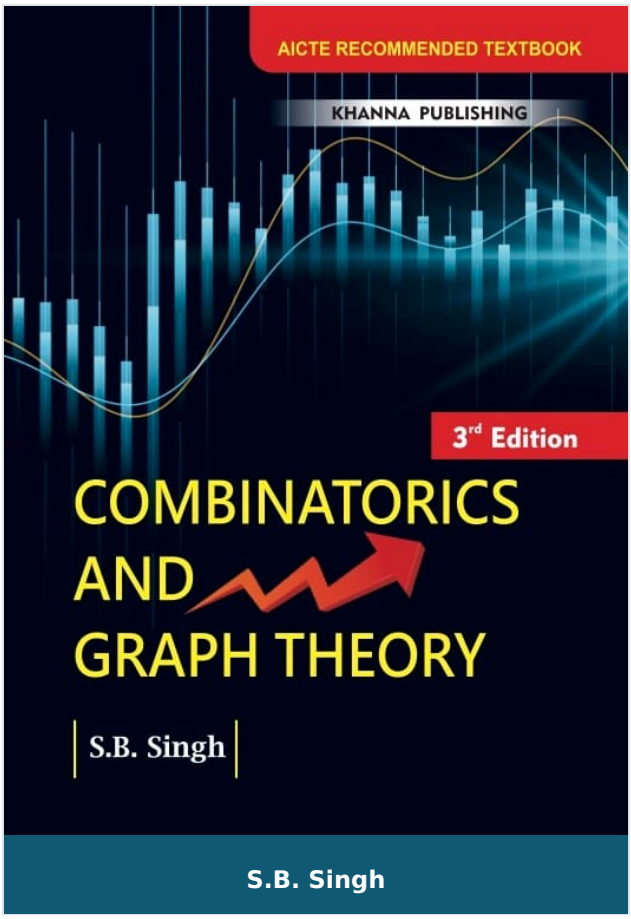

S.B. Singh

Combinatorics and Graph Theory

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Author

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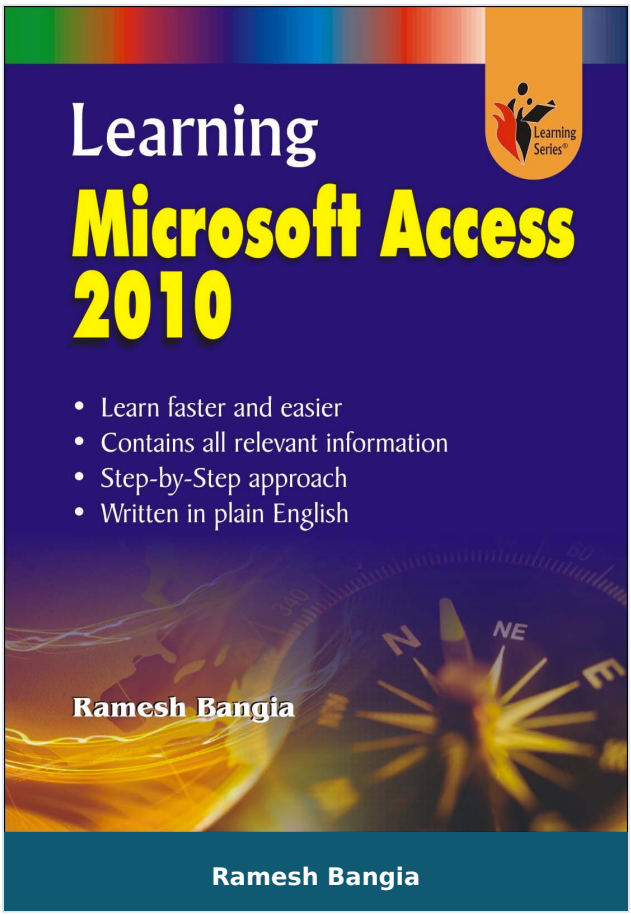

Learning Microsoft Access 2010

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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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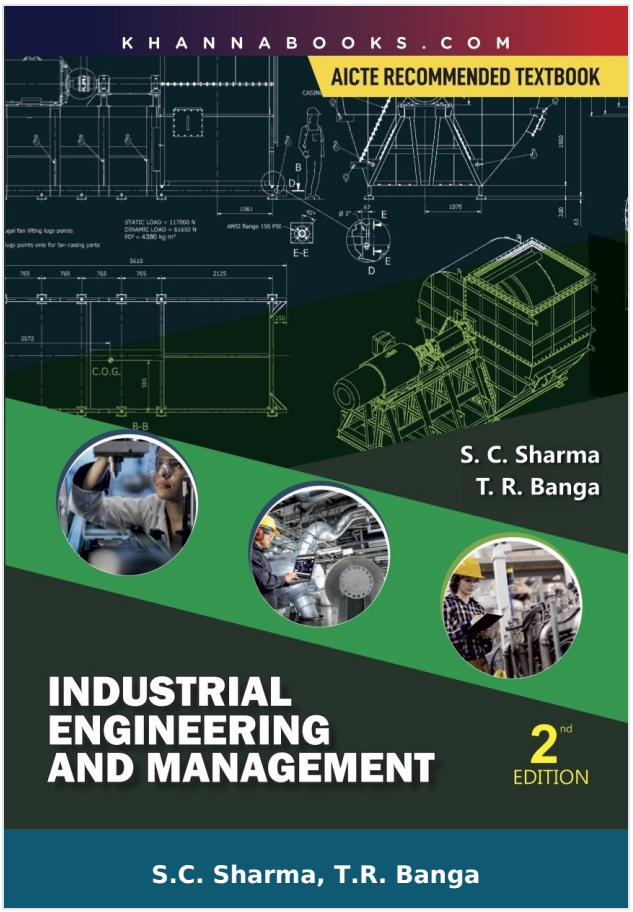

Industrial Engineering and Management

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- Environmental Pollution and Control

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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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