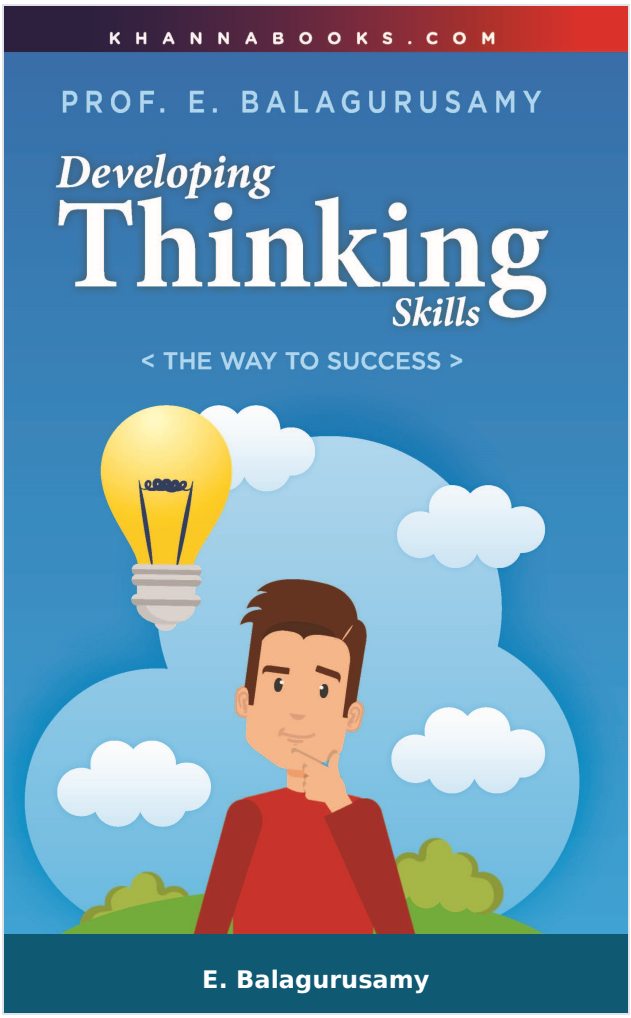

Developing Thinking Skills (The Way to Success)

Author :	E. Balagurusamy
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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

differently and to solve problems at multiple levels of depth.

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Table Of Contents

- Importance of
- Thinking Skills
- Critical
- Thinking
- Creativity
- and Creative Thinking
- Rational
- Thinking
- Design Thinking
- Ethical Thinking
- Systems
- Thinking
- 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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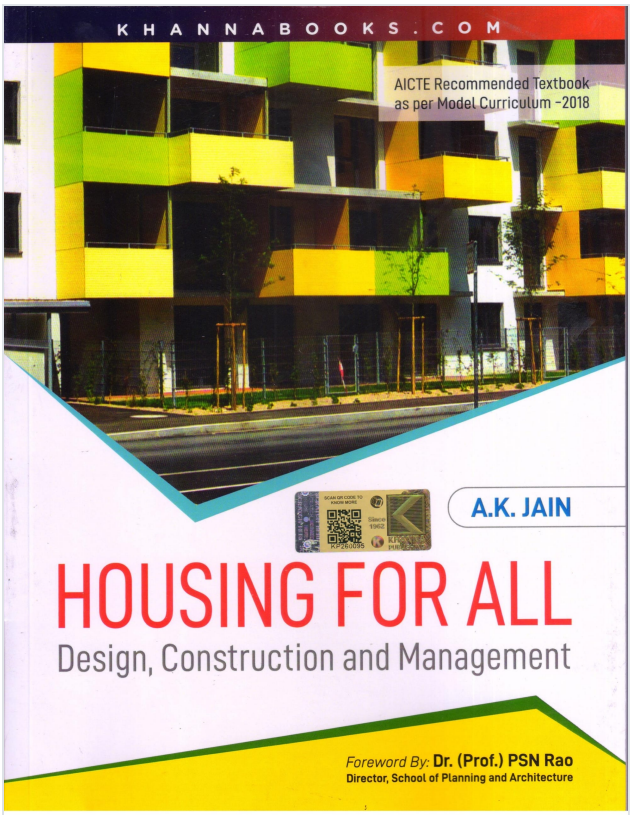

A.K. Jain

Housing for All

Author :	A.K. Jain
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Product Description

This book titled “Housing for All: Design, Construction and Management” by A.K. Jain is a comprehensive assessment of the housing situation in India which not only traces the path taken by (governments so far but also outlines a roadmap for the future. The book begins with an overview of the housing scenario in India. It discusses various housing program and draws a distinction between affordable housing and adequate housing. The book also draws particular attention to housing issues of special groups such as the elderly, disabled, homeless, migrant and transit workers, students and single women. There is also a discussion on the issue of social and physical infrastructure. The book notes that housing units alone do not constitute housing but infrastructure plays a critical role in the occupancy of housing. The question of reducing the cost of housing has been vexatious for long. Jain deals with this issue in detail and suggests various low-cost technologies and house building systems for making housing more affordable. Another issue is that of rental housing. Jain suggests that giving a boost to rental housing through a slew of measures can go a long way in making housing more accessible and bring vacant housing into the market.

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Table Of Contents

- An Overview of India’s Housing Scenario
- Housing Programmes
- Affordable and Adequate Housing;
- Housing Design;
- Rural Housing
- Slum Rehabilitation and Community Development
- Housing Renewal and Redevelopment
- Shelter for Elderly, Disabled, Homeless, Migrants, Women and Students;
- Housing Amenities, Facilities and Services;
- Building Resources and Technology;
- Building and Housing Systems;
- Rental Housing
- Land for Housing;
- Housing Finance
- Housing Management Strategies;
- Regulatory Reforms for Housing;
- Bibliography

Author

A.K. Jain

A.K. Jain, as Commissioner (Planning) Delhi Development Authority worked on the Master Plan for Delhi-2021, National Urban Housing and Habital Policy, National Urban Transport Policy and various urban projects. He was a member of the Committee Constituted by the Ministry of Urban Development, GOI to review the statute of the Delhi Development

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Authority vis-a-vis the changing urban scenario and new policy initiatives. As a member of editorial Board of International Journal of Environmental Studies (UK) and is author of several books on urban development and management. He is visiting faculty at Delhi School of Planning and Architecture and other Institutes. He was awarded 2nd Urban Professional Award 2014 at World Urban Forum in Medellin, Colombia in recognition of being an exemplary city changer. Union Minister for Urban Development hourured him with IBC Lifetime Achievement Award (2016).

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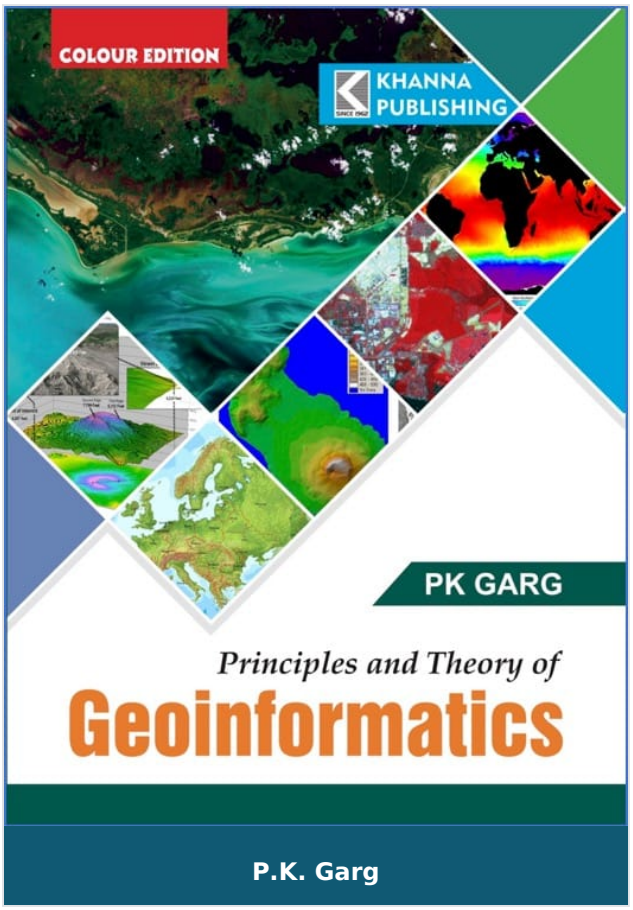

Principles and Theory of Geoinformatics

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Product Description

Geoinformatics combines photogrammetry and remote sensing, image processing as well as other digital spatial data collection methods like GPS, field measurements, digitizing and scanning of maps, spatial data analysis algorithms and geographical data management, and visualization. It is one of the important tools that can help us to map and monitor the changes in the environment and on Earth, Geoinformatics, being multi-disciplinary in nature, is a fast growing area to solve real world problems by bringing together technologies and tools required for acquisition, exploration, visualization, analysis and integration of various spatial data.

The main key feature of this book is that it concisely covers all the major topics of geoinformatics; Photogrammetry, Remote Sensing, GPS and GIS, so that UG & PG students and researchers can understand the theory of land data collection & mapping, and subsequently the analysis from these maps. The structure and character of spatial and non-spatial datasets are also described.

The book covers basic geoinformatics tools and techniques which encompass a wide range of equipment, images and software, such as laser based devices, LiDAR, UAV/Drone, Aerial and terrestrial photographs, optical, Thermal, microwave and hyperspectral images, GPS, and GIS. The utility and application areas of these data collection techniques are presented in a simple language. This book will be extremely useful to students to understand the principles and theory of Geoinformatics that are crucial for several applications on the Earth surface.

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Table Of Contents

- GEOINFORMATICS
- PHOTOGRAMMETRY
- REMOTE SENSING
- GLOBAL POSITIONING SYSTEMS
- GEOGRAPHIC INFORMATION SYSTEMS

Author

P.K. Garg

P.K. GARG Professor, Civil Engineering Department Indian Institute of Technology Roorkee, Roorkee & Former, Vice Chancellor Uttarakhand Technical University, Dehardun

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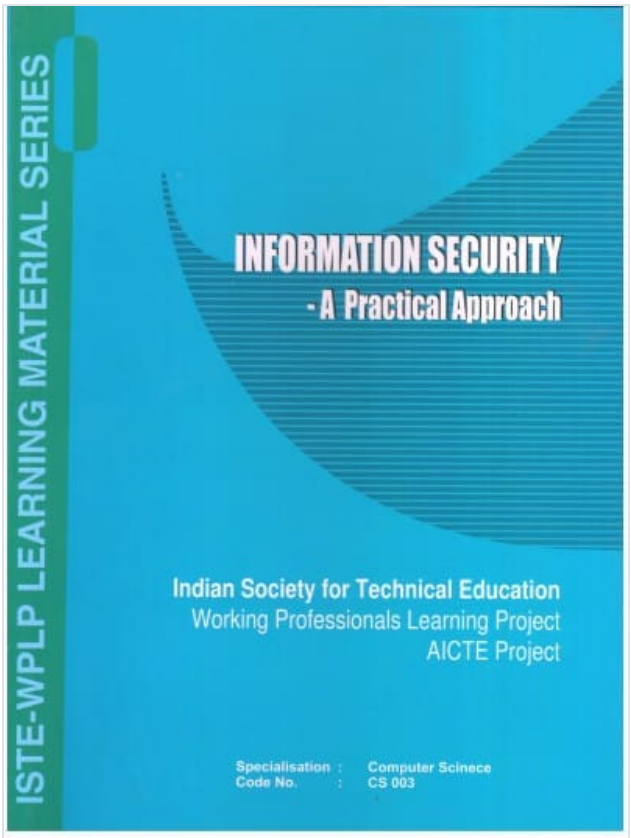

V.Vasudevan, S. Dhanasekaran, B. S. Murugan

Information Security- a Practical Approach

Author :	V.Vasudevan, S. Dhanasekaran, B. S. Murugan
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Product Description

The book Information Security-A Practical Approach, is a strenuous attempt taken by the authors to encapsulate concepts of Network-Security. Information security, something shortened to InfoSec, is the modification, inspection, recording or destruction of information. This book provides a rudimentary and firsthand knowledge on Information Security pertaining to the standards and procedures available in Information Security, the implementation of security and authentication algorithms which is the need of the hour for the small scale industries. The components of the chapters give a perspicuous view on confidentiality, integrity, availability, policy and its various types, encryption, decryption and so forth to cater not the needs of the working professionals and entrepreneurs as well. Especially the chapter on case studies provides hands on experience and reiterates the significance of protecting data and information. The prime objective of this book is to enable the entrepreneurs of Small Scale Industries to ensure secrecy and privacy of information.

There has been a vast study on physical security and network security whereas information security is the latest process that gains momentum. We feel obliged to share our knowledge, analysis and recommendations through this manual which will create awareness among the entrepreneurs, about the paramount important of Information Security and to understand the easiest way to implementation those algorithms.

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Table Of Contents

- FOREWORD
- PREFACE
- An Overview of Information Security
- Organization Strategies for Information Security
- Essential Mathematics for Information Security
- Standard Security Algorithms
- Implementation of Security Algorithm
- Case Studies

Author

V.Vasudevan

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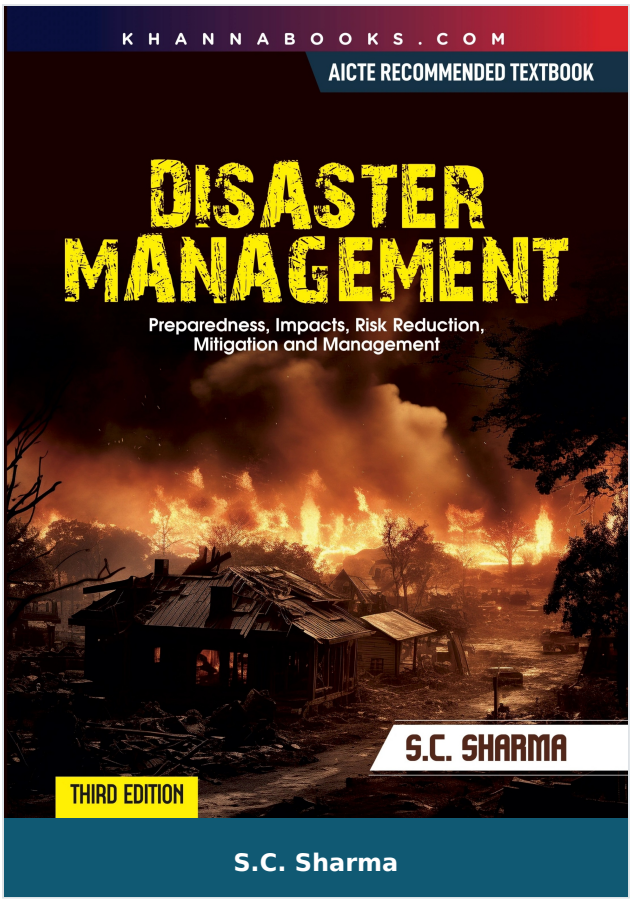

S.C. Sharma

Disaster Management

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Product Description

This book on "Disaster Management" deals with different types of disasters, their basic concepts, impacts, preparedness, capacity building, prevention, mitigation, response relief, hazards, vulnerability, and disaster prone areas in India.

This books deals natural disaster like, earthquakes, floods, cyclones, avalanches, droughts, forest fires, volcanic eruptions, landslides, extreme temperature etc. and also man-made disaster like, industrial accidents, fires, refugee situation, chemical and industrial hazard, nuclear radiation, major power breakdown, desertification etc.

The book cover the syllabi of different Universities and model syllabus of AICTE.

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Table Of Contents

- Introduction to disaster Management (Concepts and Definition)
- Disaster Classification
- Natural Disasters
- Man-Made Disasters
- Disaster Preparedness and Management
- Disaster Mitigation
- Disaster Prone (Hazard Vulnerable) Areas In India
- Risk Assessment and its Management
- Disaster Impacts
- Environmental Challenges
- Disaster, Environment and Development
- Legislation and Government Role on Disaster Risk Reduction.

Author

S.C. Sharma

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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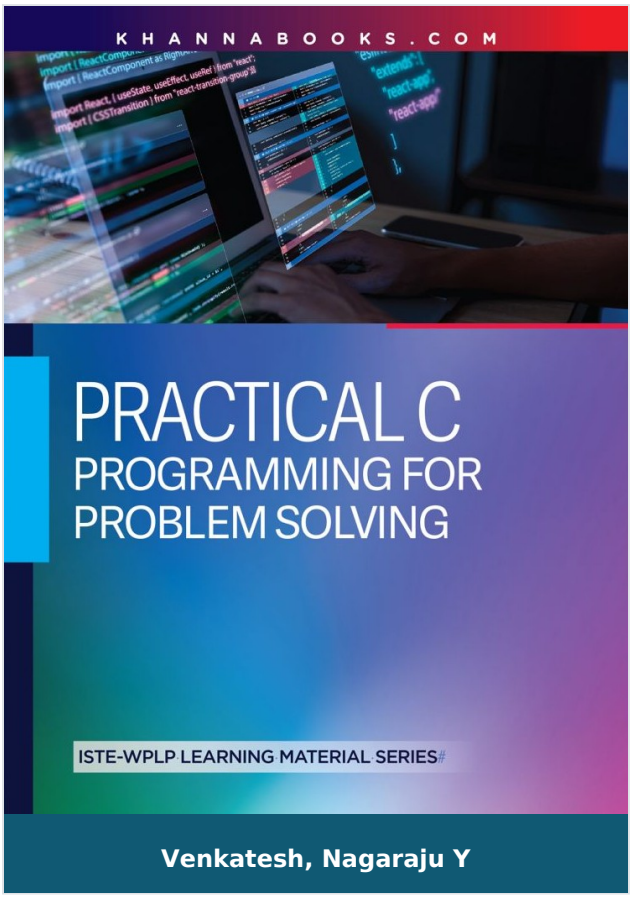

Practical C Programming For Problem Solving

Author :	Venkatesh, Nagaraju Y
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Product Description

The educational objective of this textbook is to introduce the fundamentals of C, its building blocks, the logic flow is to programs, and to provide a detailed explanation of C program coding.

This book is dedicated to pragmatic C programming. C is a language that makes learners feel confident while learning it. That's because C is a standardized and simple language with respect to syntax. It stands as the language of choice for hardware programming among programmers. This book emphasizes the skills required to solve real- world problems through programming. It not only offers insights into the working procedures but also delves into the fundamentals, teaching the creation of flowcharts and writing algorithms.

This book serves two general purposes. First, it acts as a manual for graduate-level students who wish to learn coding using the C programming language. Second, it serves as a guiding companion for newcomers in companies, aiding them in understanding logic flow and the art of coding. Learning C has become a prerequisite for Computer Science graduates, as the language is both simple and comprehensible. The motivation behind the writing of this book is to facilitate the process of learning C and mastering logic flow.

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Table Of Contents

- Introduction to C Programming Fundamentals
- Basic Lebel C Programs
- Intermediate Lebel C Programs
- Concepts Oriented C Programs
- Sorting and Searching Algorithms
- Advanced C Programs
- Project Implementation Using C

Author

Venkatesh

Venkatesh,

Nagaraju Y

Nagaraju Y

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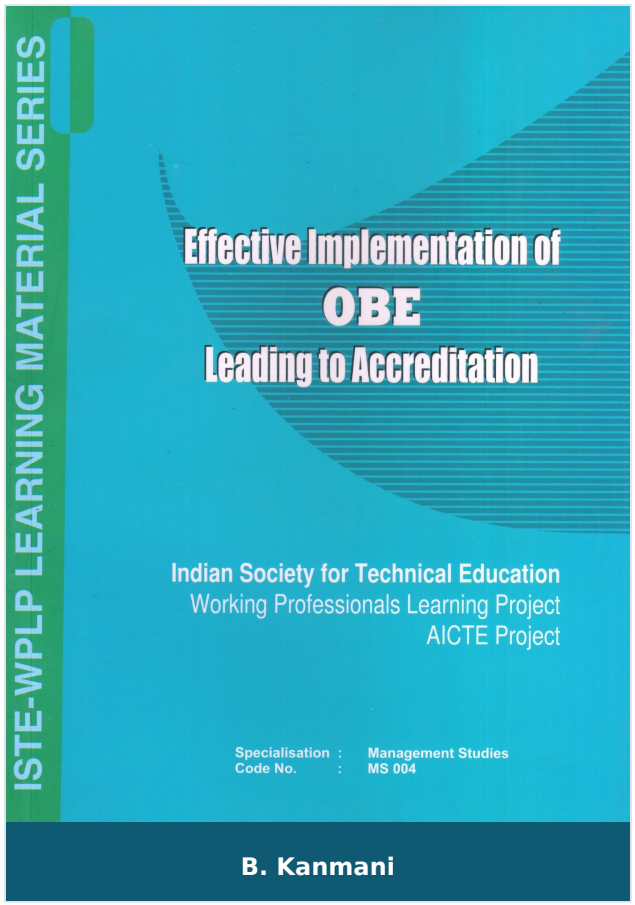

Effective Implementation of OBE Leading to Accreditation

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Product Description

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

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Table Of Contents

- Forward
- Preface
- Acknowledgement
- List of Abbreviations
- Introduction to the OBE process
- The Program Educational Objectives
- Curriculum Design
- The Program Outcomes and Program Specific Outcomes
- The Course Outcomes
- Computing the attainment of various Outcomes
- Student Performance
- Faculty Contribution
- Ensuring Continuous Improvement Through OBE
- Reference.

Author

B. Kanmani

Dr. B. Kanmani

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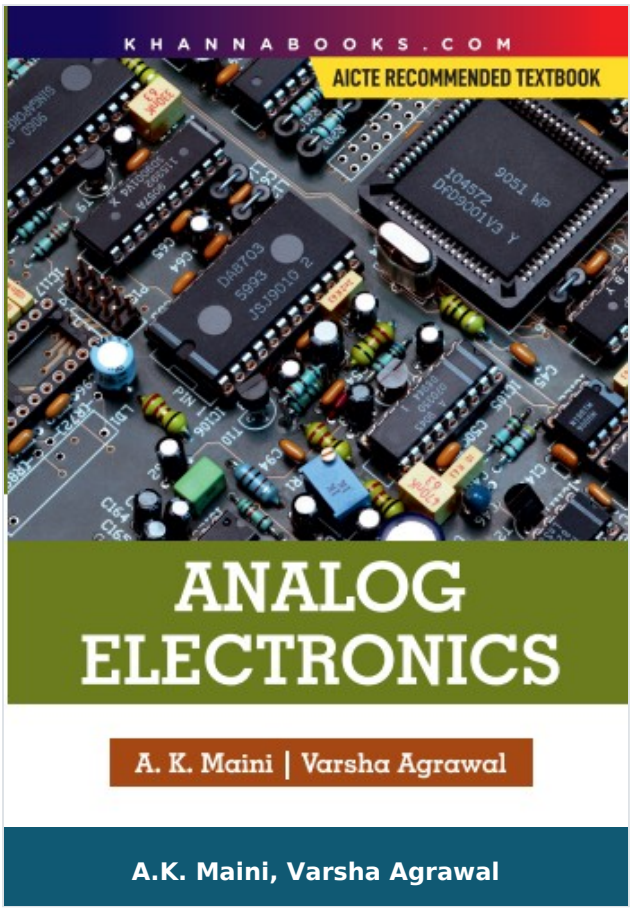

Analog Electronics

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Product Description

Analog Electronics is a complete and yet concise textbook on Analog Electronics covering Semiconductor Devices and associated circuits. Major topics covered in the book include Semiconductor device fundamental, Small signal and Large signal analysis of amplifiers, Low and High frequency response of amplifiers, Sinusoidal and Non-sinusoidal oscillators, feedback amplifiers, Operational amplifiers and application circuits, D/A and A/D converters and finally Switched capacitor circuits. the contents are strictly as per the syllabus as prescribed by AICTE. the book is replete with Solved problems and Self-evaluation exercises including Multiple choice question with answers.

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Table Of Contents

- Chapter-1: Semiconductor Diodes-Fundamentals, Types and Circuits
- Chapter-2: Bipolar Junction Transistor
- Chapter-3: Field- Effect Transistors
- Chapter-4: Small Signal Analysis of Amplifiers
- Chapter-5: Multistage Amplifiers
- Chapter-6: Large Signal Amplifiers
- Chapter-7: Feedback Amplifiers
- Chapter-8: Oscillators- Sinusoidal and Non-Sinusoidal
- Chapter-9: Introduction to Operational Amplifiers
- Chapter-10: Opamp Circuits
- Chapter-11: Digital-to-Analog and Analog-to-Digital Converters
- Chapter-12: Switched Capacitor Circuits
- INDEX

Author

A.K. Maini

A.K. Maini Dr. Anil K. Maini served Defence Research and Development Organisation (DRDO) for 36 years in different capacities. Before superannuation, he served as Director of Laser Science and Technology Centre (DRDO) from September 2008 to june 2014. His areas of expertise include Optoelectronic simulators and sensors, Laser systems, Electro-optic countermeasures and High voltage electronics, He has authored and co-authored 15 books more then 150 publications in national/international journals/magazines and has 12 patents (four granted, eight pending) to his credit Currently, he is Consultant in Defence Technologies.

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Varsha Agrawal

Varsha Agrawal is a Senior Scientitst with DRDO. She has more than 19 year of R&D experience in Laser Systems, Optronic sensor systems and Embedded electronics. She has authored and co-authored five books and has large number of publications in national and international journals/magazines and has one patent to her credit.

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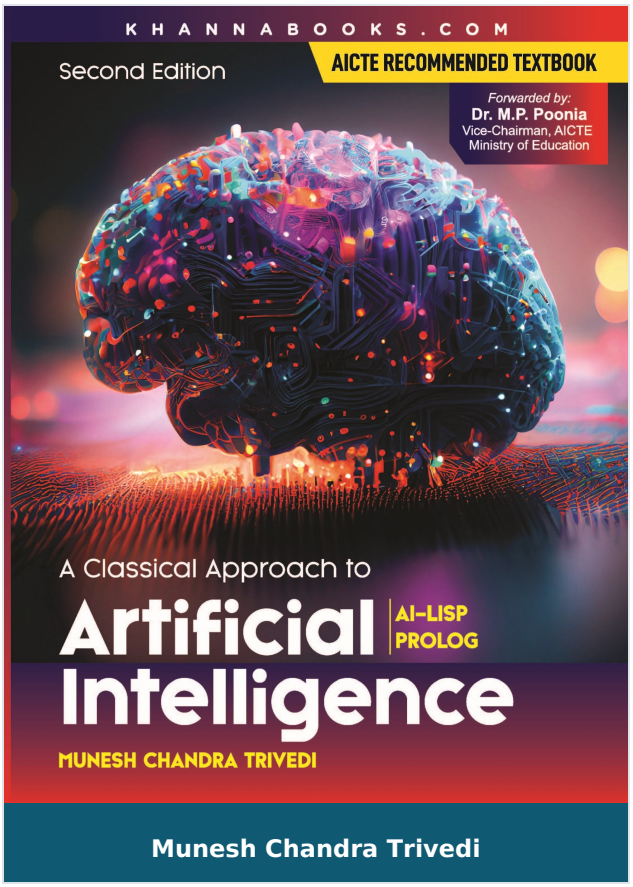

A Classical Approach to Artificial Intelligence | AICTE Recommended Textbook

Author :	Munesh Chandra Trivedi
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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 this books. Keeping these points in mind, Artificial Intelligence was prepared, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities.

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Table Of Contents

- Overview of Artificial Intelligence
- Problem Solving and Search
- Search Methods
- Problem Solving in Games (Adversarial Search)
- Understanding Natural Languages
- Knowledge Representation
- Techniques of Knowledge Representation
- Expert System
- Pattern Recognition
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- Computer Vision Representations
- Common Sense
- Programming Languages

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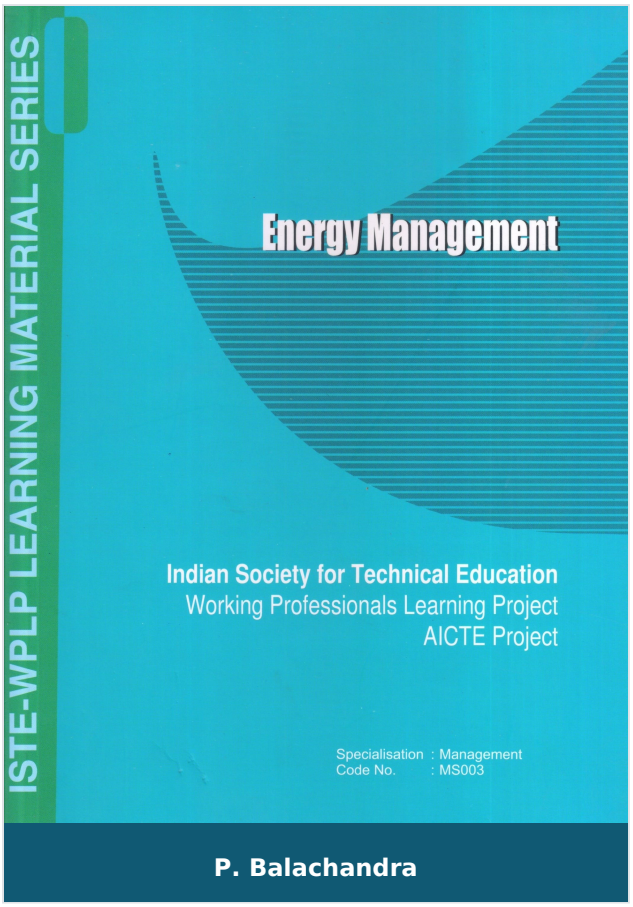

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Table Of Contents

- Foreword
- Preface
- Energy Basics and Fundamental Concepts.
- Dynamics of Energy Supply and Demand in India.
- Energy and Economic Development.
- Energy and Sustainable Development.
- Energy Production and Utilization: Implications for Environment.
- Economics of Energy Supply and Use.
- Energy Efficiency: A new Source of Energy.
- Renewable Energy.
- Energy Modeling and Integrated Resource Planning.
- Energy Supply and Demand Security,
- Energy Policy and Regulatory Issues.
- Typical Questions
- Bibliography
- Appendix

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