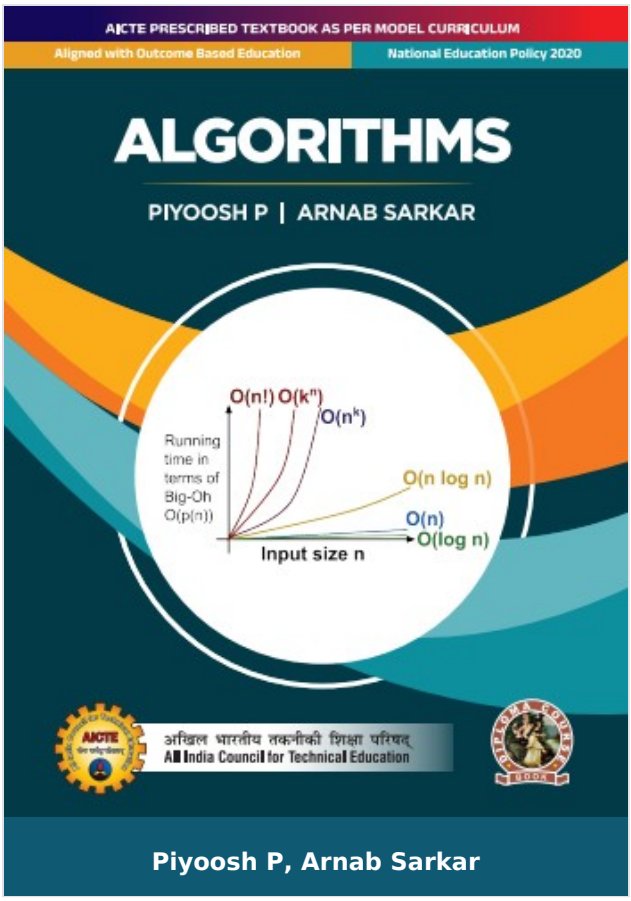


Algorithms

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Product Description

Algorithms

This book presents data structures and algorithms whose knowledge is indispensable to effective computer programming. Design of algorithms strategies for different types of applications as well as techniques for analyzing them have been introduced, so that the students gain an understanding of mechanisms for constructing correct and efficient software programs. The main content of this book is aligned with the model curriculum of AICTE followed by the concept of outcome-based education as per National Education Policy (NEP) 2020.

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

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- Index

Author

Piyoosh P

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Mastering C# 4.0 (With Complete C# Language and Examples)

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Product Description

Web Tech solutions Inc. is one of the pioneers of the technology industry. Web Tech solution Inc. is a leading IT development company bringing the latest technologies in a short span of time. Its professional research team aims to deliver the latest information on the best way to analyze, develop, test, debug and tune best development skills including technical coding and theoretical concepts of IT. Its main aim is committed to excellence; excellence in its range and quality of publishing; excellence in dedication to its authors and excellence in the service it provides to the readers. By way of this book, Mastering C# has become faster and easier as all the relevant information and step-by-step approach has been followed in simple plain English. It is designed very systemically and logically. The basic concepts have been taught in-depth with lots of examples and screen shots. A large number of unsolved as well as solved exercises have been included for the benefit of the readers.

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- Strings & Formatting
- Multi thread Programming
- Collections, Enumerators and Iterators

Author

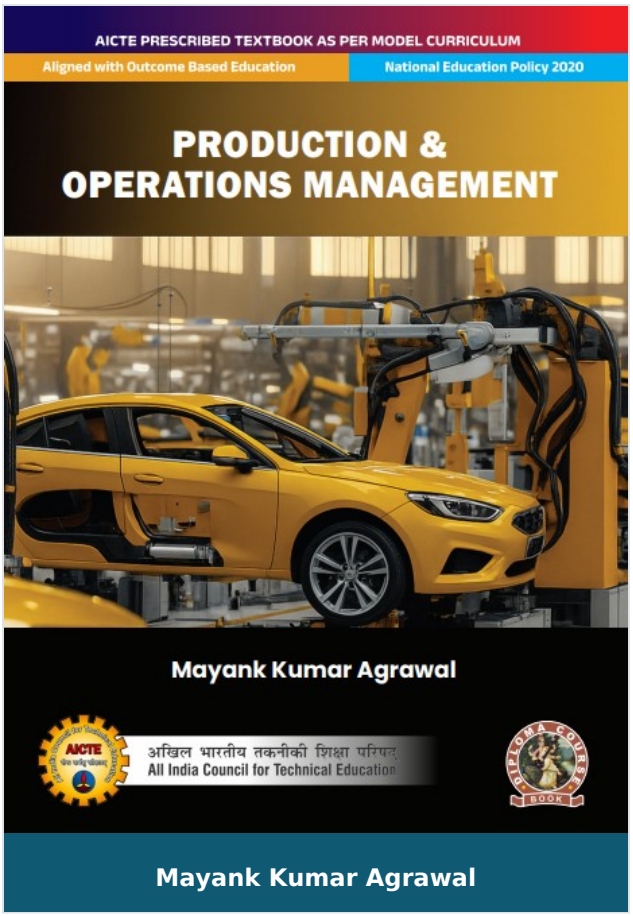
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WebTech Sol. WebTech Solutions Inc. is one of the pioneers of the technology industry. Webtech Solution Inc. is a leading IT development company bringing the latest technologies in a short span of time. Its professional research team aims to deliver the latest information on the best ways to analyze, develop, test, debug and tune best development skills including technical coding and theoretical concepts of IT. Its main aim is committed to excellence: excellence in its range and quality of publishing; excellence in dedication to its authors and excellence in the service it provides to the readers.

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Production & Operations Management

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Product Description

Production & Operations Management

Production & Operations Management is a field of management that focuses on overseeing an optimizing the process of producing goods and services. It involves planning, organizing, and controlling the activities involved in the production of goods and delivery of services. This book gives detailed description about production management and operation management in industry. The book entitles “production & Operations management” developed as per the model curriculum of AICTE for third year students of mechanical and industrial Engineering.

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.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- 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 systematic step. All chapters have been updated to reflect new techniques, case studies and technologies. Expansion of purpose and impact of strategic planning, including environmental and sustainability issues. Allows students to understand the importance of the field at a higher level, including impacts and benefits to society as a whole.

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- Information included on lean production concepts and theory of constraints. Theory of constraint provides an interesting and potentially effective alternative method to think about several of the concepts in the book, and can help students compare and contrast theory of constraints with non-theory of constraint approaches.
- Book provides lots of recent information, interesting facts, QR code for E-resources etc.

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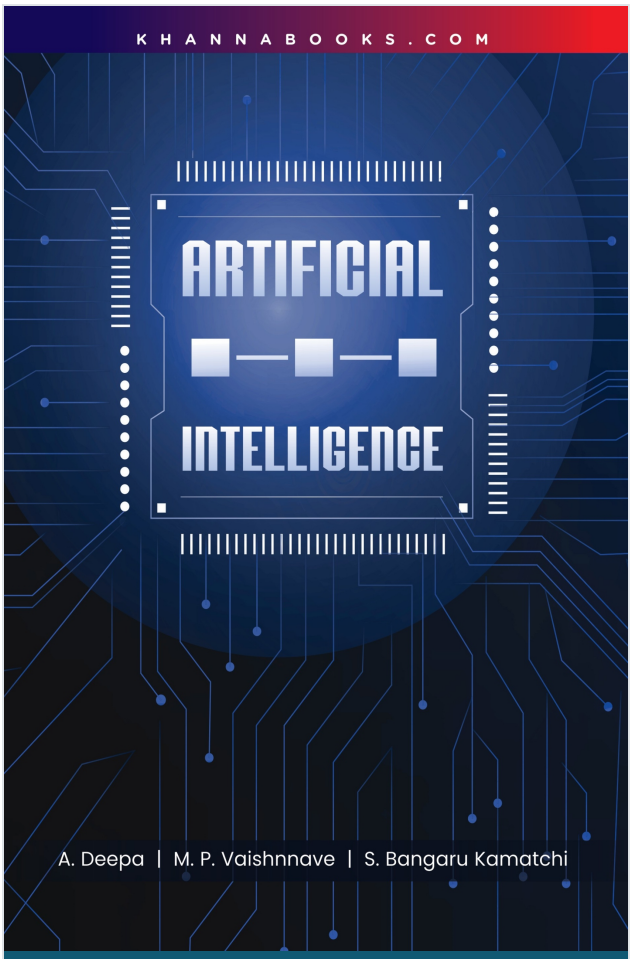
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A. Deepa, M.P. Vaishnnave, S. Bangaru Kamatchi

Artificial Intelligence

Author :	A. Deepa, M.P. Vaishnnave, S. Bangaru Kamatchi
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Product Description

Artificial Intelligence serves as a comprehensive and structured guide to the fundamental principles, techniques, and transformative real-world applications of AI. Recognizing AI as one of the 21st century's most essential technologies, this book is an invaluable resource for mastering the concepts required to understand and develop intelligent systems. It is meticulously designed to guide readers from foundational concepts, such as the history of AI and the nature of intelligent agents, through increasingly sophisticated methodologies.

The core themes delve into problem-solving paradigms, including uninformed and informed search strategies like A* search, Hill Climbing, and Genetic Algorithms, alongside the critical aspects of optimal decision-making in competitive environments using techniques like Alpha-Beta Pruning. A significant portion is dedicated to Knowledge Representation and Reasoning, exploring formal logic (Propositional and First-Order), Ontological Engineering, and the mechanisms of logical inference like Forward and Backward Chaining. Furthermore, the text addresses acting logically in uncertain, real-world settings by utilizing Bayesian networks and decision theory to ensure rational planning.

By integrating theoretical foundations with practical implementation examples, this book is an essential resource for students, educators, researchers, and professionals seeking to bridge the gap between academic knowledge and the creation of intelligent systems capable of solving complex, real-world challenges.

Salient Features

• Search & Problem Solving: Details a full spectrum of search algorithms, including uninformed (BFS, DFS) and advanced heuristic strategies like A* search, Hill Climbing, and Simulated Annealing.

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• Game Theory Insights: Covers optimal decision-making strategies in adversarial environments, featuring comprehensive coverage of Minimax search and efficiency enhancement via Alpha-Beta Pruning.

• Logical Reasoning: Presents a deep dive into Knowledge Representation using First-Order Logic, Situation Calculus, and practical inference mechanisms like Forward and Backward Chaining.

• Uncertainty Handling: Explains Probabilistic Reasoning and Decision-Making in non-deterministic environments, focusing on the application of Bayes's rules and the semantics of Belief Networks.

• Planning Methodologies: Explores agent planning techniques from state-space search to Partial Order Planning (POP), offering methods for both theoretical plan representation and real-world action execution.

• Practical Learning:Promotes a holistic learning experience by blending theoretical depth with practical implementation through problem-solving exercises and complex real-world examples in each unit.

• AI Applications: Dedicates an entire unit to transformative applications like Natural Language Processing (NLP), Machine Translation, Information Retrieval, and core Robotics concepts.

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- Informed Search and Game Playing
- Knowledge and Reasoning
- Acting Logically
- AI Applications

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M.P. Vaishnnave

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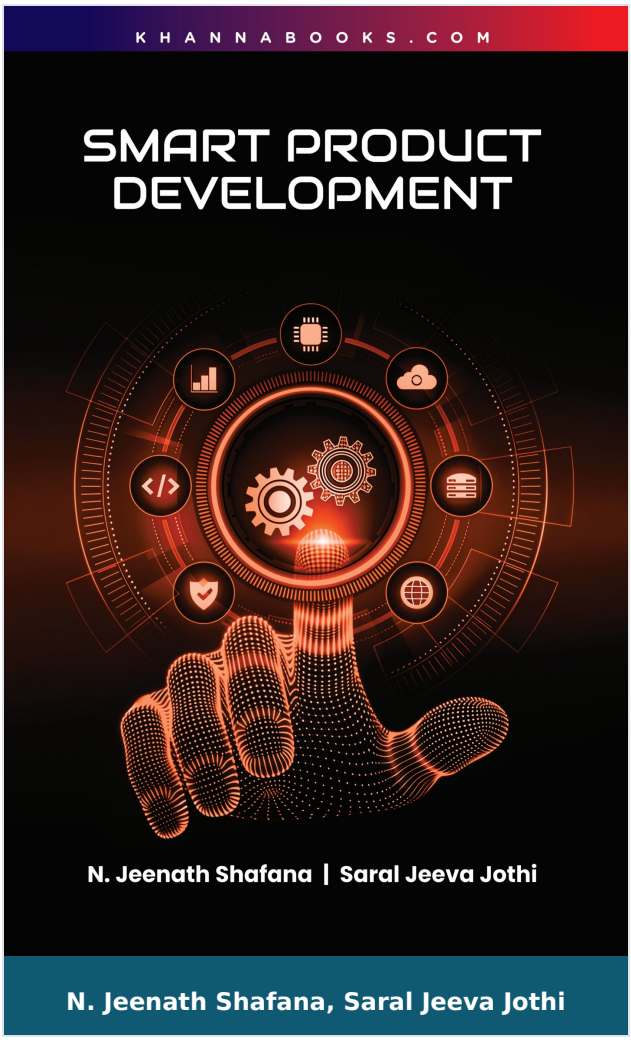
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Smart Product Development

Author :	N. Jeenath Shafana, Saral Jeeva Jothi
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Product Description

This book is an indispensable resource for navigating the rapidly evolving landscape of smart technologies, where the integration of sensors and smart systems is pivotal for advancing functionality across a wide range of industries. Titled SMART PRODUCT DEVELOPMENT, this comprehensive guide is designed to equip its target audience—students, engineers, professionals, and technology enthusiasts—with the foundational knowledge and practical skills needed to master the complexities of modern connected devices.

The core purpose is to provide a deep, structured understanding of sensor devices—the eyes, ears, and nervous system of modern technology—their diverse applications, and their essential interfacing with Microcontroller Units (MCUs). The text begins by introducing fundamental sensor types, including piezoresistive, capacitive, and resonant sensors, detailing their design and real-world use in applications from wearable tech to autonomous vehicles.

Moving beyond hardware, the book thoroughly explores signal conditioning, digital conversion, and advanced control techniques such as state machines, fuzzy logic, and neural networks, showing how to integrate sensors into larger, reliable systems. Critical sections are dedicated to communication protocols (including wireless networks, RF sensing, and automotive standards) and the vital role of IEEE 1451 standards in ensuring system interoperability. Finally, the book connects theory to practice by examining real-world use cases in creating Smart Cities, covering applications in agriculture, health, disaster prevention, and water management, alongside the challenges of implementing AI and IoT at scale. This blend of theory, practical knowledge, and case studies makes it a crucial resource for aspiring engineers and industry experts.

Salient Features:

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• Sensor Fundamentals: Provides comprehensive foundational insights into diverse sensor technologies, covering principles, classifications (active/passive), and detailed working mechanisms for types like piezoresistive and capacitive sensors.

• Microcontroller Interfacing: Focuses on how sensor data is processed, amplified, and conditioned for use, emphasizing Digital Conversion and the essential design considerations for effective MCU control in embedded systems.

• Advanced Control Logic: Explores modern automation and system behavior control using state machines, Fuzzy Logic systems for nuanced decision-making, and sensor control via Neural Networks.

• Communication Protocols: Deep dive into crucial standards for smart sensor connectivity, including wireless networks (Wi-Fi, Zigbee, Bluetooth), RF sensing, Telemetry, and specialized Automotive Protocols.

• Industry Standards: Details the architecture and benefits of the IEEE 1451 standards for smart sensors, ensuring necessary compatibility and interoperability between devices, control systems, and embedded technologies.

• IoT Case Studies: Presents transformative, real-world applications within the Smart Cities paradigm, covering sectors like smart agriculture, health, disaster prevention, and advanced water/waste management.

• AI/ML Integration: Discusses the challenges and solutions for developing AI and IoT systems at scale, covering predictive analytics, data quality, and the ethical considerations necessary for smart product success.

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Author

N. Jeenath Shafana

N. Jeenath Shafana

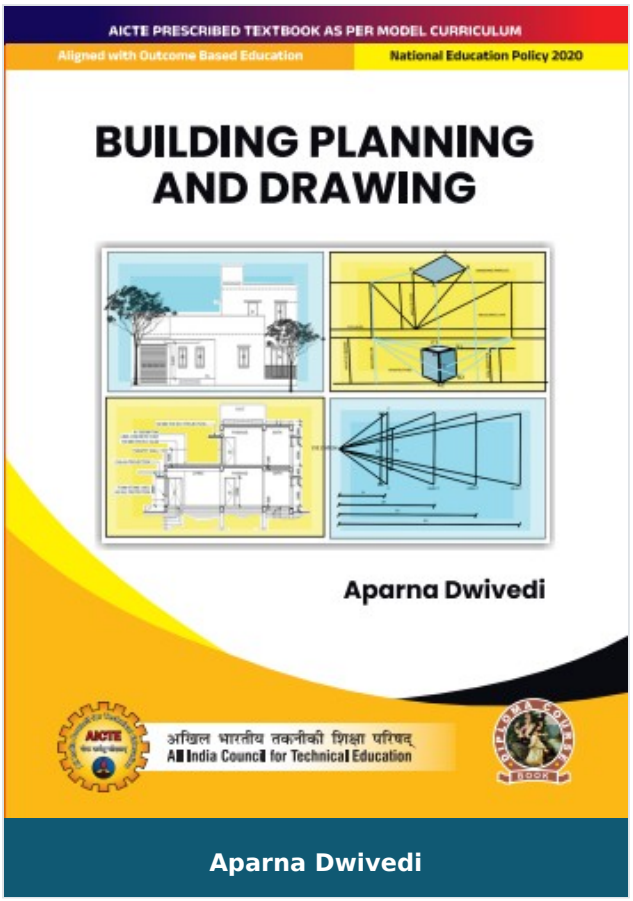
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Building Planning and Drawing

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Product Description

Building Planning and Drawing

Building Planning and Drawing will be a very useful book for Civil Engineering and Building Industry. The focus of this book is the foundation of building design and understand the building vocabulary along with the process to approve plans and also writing specifications and Estimates. Different types of lines, types of scale, principles of planning for Residential and public building and the book also gives examples of line plans of residential building and public buildings like – school building, primary health Centre, restaurant, bank, post office, hostel, Function Hall and Library. Detailed drawings of load bearing structure and Framed

S

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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- Perspective Drawing
- CO and PO Attainment Table
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Author

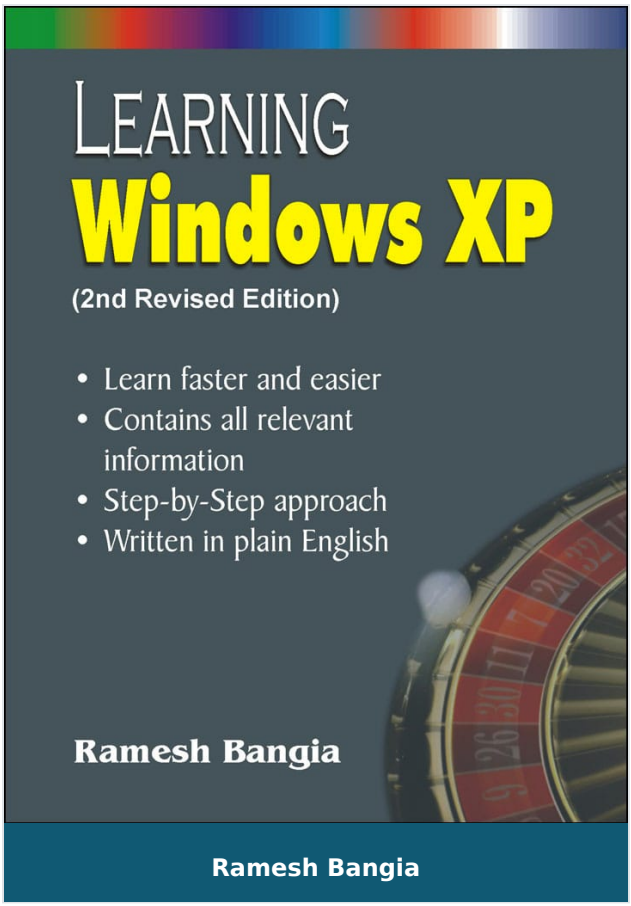
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Learning Windows XP

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Product Description

Learning of a software is both easy and difficult. It depends up to 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 realize how difficult it is to master it. Window XP 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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Author

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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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Engineering Graphics

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Product Description

“ Engineering Graphics” is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

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

Some salient features of the book:

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

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

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

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

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

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

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

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

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

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Engineering Workshop Practice

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Product Description

“ Engineering Workshop Practice Manual” is a common paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education.

Engineering Workshop Practice manual covers five units- First unit deals with the carpentry, second unit is about fitting , third unit focuses on welding, fourth units discusses about sheet metal working and the fifth unit deals with electrical house wiring . The manual comprises of total seventeen workshop practical from P1 to P17 and the same are arranged in hierarchical manner from simple to complex so that students should not only focus on completing the practical and getting the marks/ grades but will also be motivated to create useful products incorporating their creative and critical thinking as well.

Some salient features of the book:

1. Content of the manual aligned with the mapping of Course Outcomes, Programs Outcomes and practical outcomes.

2. Relevant theory has been included at the beginning of each practical.

3. The manual has been developed to ensure alignment with the Outcome Based Education philosophy and consisting of total seventeen workshop practical.

4. Unit wise practical are arranged in hierarchical manner from simple to complex.

5. Manual provides recent information and QR Code for E-resources etc.

6. Figures, photographs and table are inserted to improve clarity of the content.

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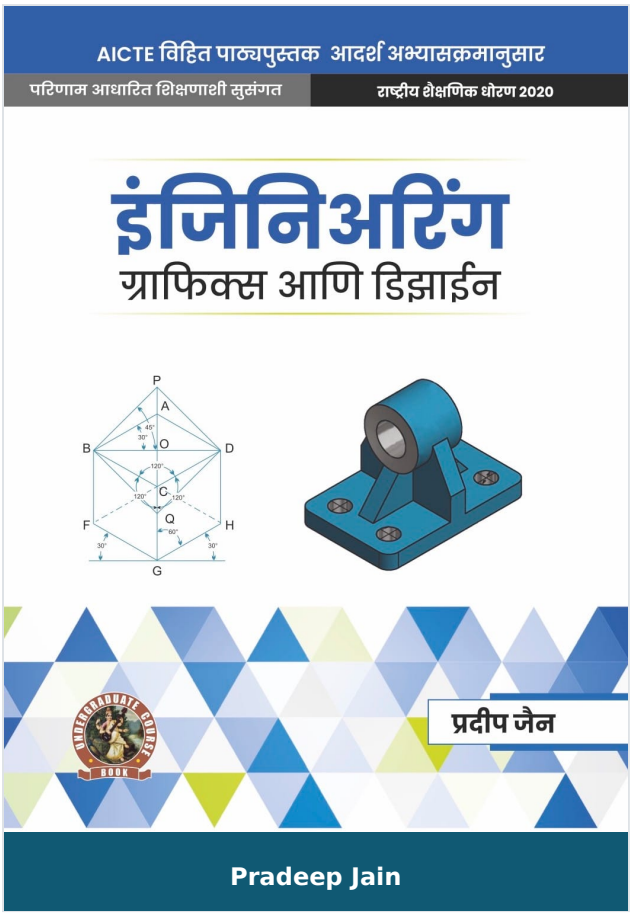
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Engineering Graphics & Design

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Condition Type :	New
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Product Description

This textbook “Engineering Graphics and Design” is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples.

Salient Features:

1. Introduction of Engineering Drawing.
2. Orthographic Projection.
3. Projection of Solids.
4. Section of Solids and Development of Surfaces.
5. Isometric Projection.
6. Overview of Computer Graphics.
7. CAD Drawing.
8. Solid Modelling.
9. Team Design Project.

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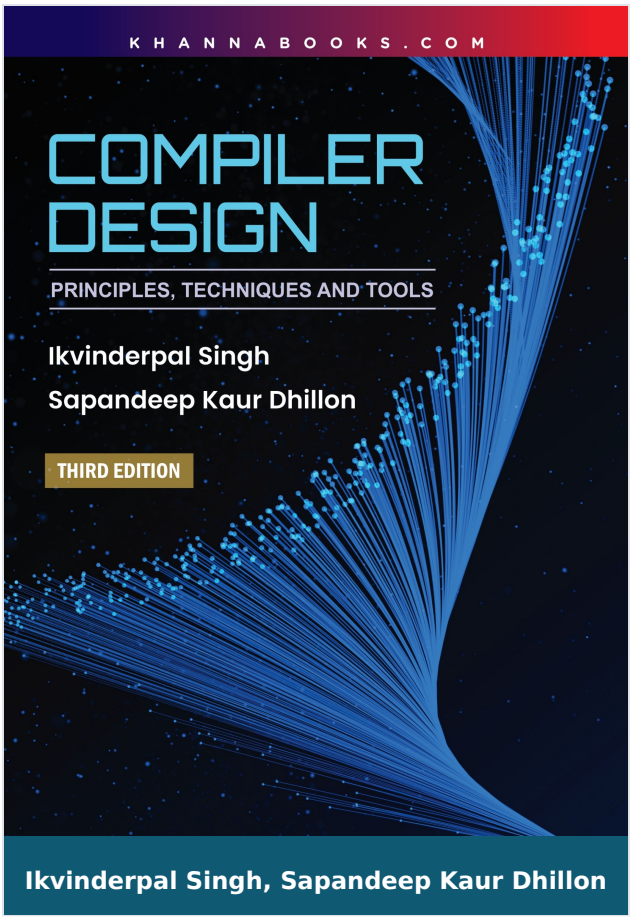
Pradeep Jain

Pradeep Jain has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field.

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Compiler Design

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Product Description

Compiler design

Compiler design is a subject which many believe to be fundamental and vital to computer science. It is subject which has been studied intensively since the early 1950’s and continues to be an important research field today. It is intended for both students and practitioners, retaining its appeal as a guide to the industry professional and a comprehensive introduction to the student at the upper level undergraduate or first year graduate level. This book will be useful for student of BE (Computer/Electronics), B. Tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level course of DOEACC.

Salient Features

- Gives an introduction the basics of compiler design
- Describes the lexical and syntax analysis.
- Deals with symbol table management.
- Describes the storage management.
- Gives the details of code generation and optimization.
- Gives a detailed explanation of various types of compilers.
- Gives a case study of YACC and its implementation.

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- Basics Of Compilers
- Lexical Analysis
- Syntax Analysis
- Symbol Table Handling
- Storage Management
- Intermediate Code Generation
- Code Generation
- Code Optimization
- Types Of Compilers

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 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.

Sapandeep Kaur Dhillon

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers

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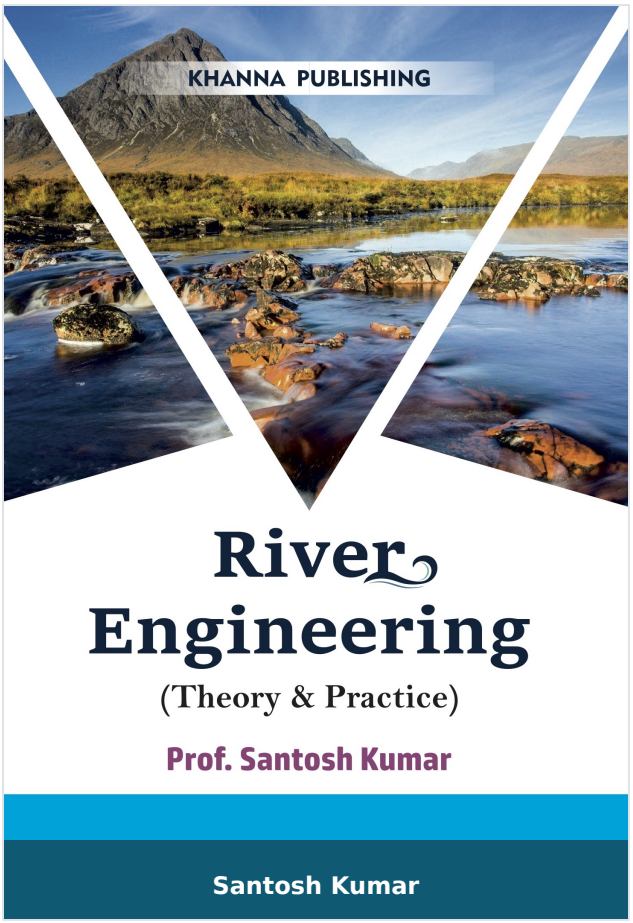
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across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

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River Engineering

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Product Description

This text book is designed essentially to meet the requirements of Undergraduate Engineering interested in Water Resources specialization. More particularly, the book shall help the field engineers involved with rivers understanding river's two function of transporting water as well as sediment. The book is divided in 3-major parts, viz. Basic Science of River flow, Sediment Transport and other topics like, Flood control, River Ganging, and River Trading.

The book on River Engineering containing large number of solved problems. Simplified graphs Chapter on River Ecology and Interlinking of Rivers.

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- Estimation of Sediment Load
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- Part III
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- Methods of River Training
- River Gauging
- Flood & Flood Control
- River Ecosystem
- Interlinking of Rivers
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Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).

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