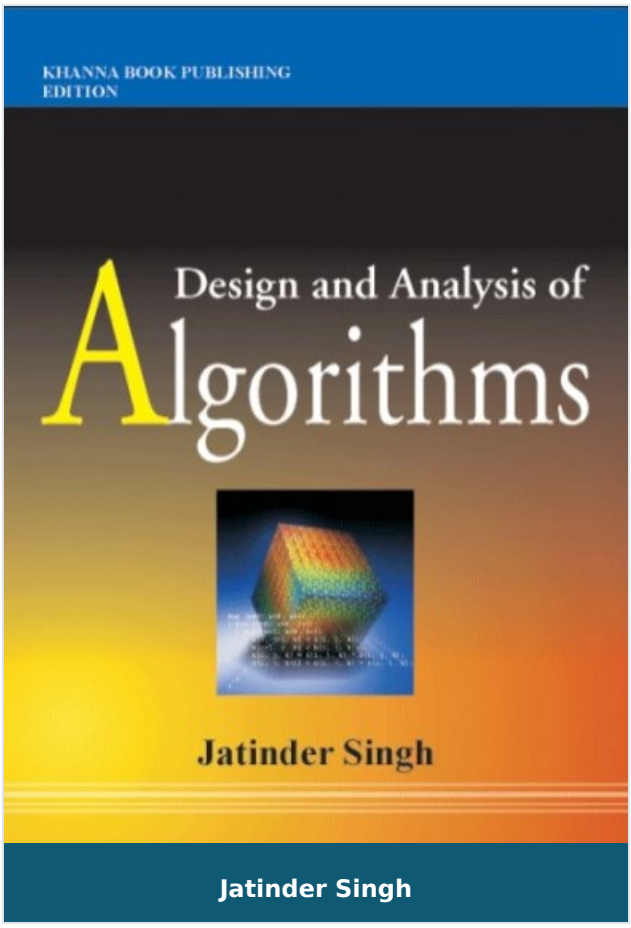


Jatinder Singh

Design & Analysis of Algorithms

Author :	Jatinder Singh
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Product Description

This book is an ideal test to provide in depth knowledge on design and analysis of algorithm. The purpose of the book is to make the students understand the fundamentals of design and analysis of algorithm conveniently. It is meant to be used as a text book for BSc/BCA/MCA/MSc/ B.E./B. Tech/MSc/MS/M. Tech and diploma courses, and as a reference book.

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- Dijkstraâ€™s Algorithm
- Minimum-Cost Spanning Trees
- UNIT - 5
- String Matching

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- Randomization
- Amortized Analysis of Data Structure

Author

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Lekshmi S. Raveendran, Minu Susan Jacob, Selvapriya

Artificial Intelligence Search Methods & Reasoning

Author :	Lekshmi S. Raveendran, Minu Susan Jacob, Selvapriya
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Product Description

Artificial Intelligence Search Methods and Reasoning serves as an essential guide to the foundational principles and core algorithmic strategies that power modern intelligent systems. This book uniquely blends the basic cognitive science behind AI—exploring concepts of intelligence, memory, computation, and learning—with the practical, rigorous algorithms used for problem-solving in complex environments. Its core theme is to demystify how intelligent agents perceive, reason, and act by systematically searching for optimal solutions.

The primary purpose of this resource is to equip learners with a deep, practical understanding of both uninformed (e.g., BFS, DFS) and informed search techniques (e.g., A*, Greedy Best-First Search), adversarial search, and constraint satisfaction problems (CSPs). The text further extends into crucial domains like knowledge representation using logical agents (propositional and first-order logic) and probabilistic reasoning (Bayesian networks, Hidden Markov Models). It culminates in a detailed examination of various learning algorithms, including supervised, unsupervised, reinforcement, and ensemble methods.

The target audience for this book includes undergraduate and graduate students in Computer Science, Artificial Intelligence, and Electrical Engineering, as well as researchers and professionals seeking a robust, algorithm-focused foundation in AI theory and implementation. It offers practical value through numerous case studies, such as the N-Queens Problem, the Wumpus World, and the application of Nature-Inspired Computation like Ant Colony Optimization for the Traveling Salesman Problem. It is a vital resource for building intelligent systems capable of autonomous decision-making.

Salient Features:

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• Foundational AI Concepts: Provides a unique introduction to the cognitive roots of AI, detailing the science behind intelligence, human memory models, and their translation into computational systems.

• Exhaustive Search Algorithms: Offers comprehensive coverage of Uninformed Search methods (BFS, DFS, IDDFS, UCS, Bidirectional Search) & advanced Informed Search strategies, including heuristics & A*.

• Logic and Reasoning: Systematically explores the role of knowledge and its representation using propositional and First-Order Logic, enabling agents to perform complex inference via Forward and Backward Chaining.

• Probabilistic Approaches: Dedicated unit on planning and reasoning under uncertainty, covering essential topics like Bayes' Rule, Bayesian Networks, Hidden Markov Models, and Kalman Filters.

• Constraint Solving & Games: Detailed breakdown of Constraint Satisfaction Problems (CSPs), including a case study on the N-Queens problem, alongside an exploration of Adversarial Search strategies for competitive environments.

• Modern Learning Paradigms: Includes extensive chapters on learning intelligence, covering Supervised, Unsupervised, and Ensemble Learning techniques (e.g., Boosting/AdaBoost), vital for contemporary AI applications.

• Real-World Case Studies: Features practical application examples like solving the Wumpus World problem and a special unit on Nature-Inspired Computation, demonstrating Ant Colony Optimization for the Traveling Salesman Problem (TSP).

• Intelligent Agent Design: Focuses on the Rational Agent approach, detailing the PEAS framework (Performance, Environment, Actuators, Sensors) and exploring agent rationality, learning, and autonomy.

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- Approaches Behind Planning and Reasoning
- Learning an Communication

Author

Lekshmi S. Raveendran

Lekshmi S. Raveendran

Minu Susan Jacob

Minu Susan Jacob

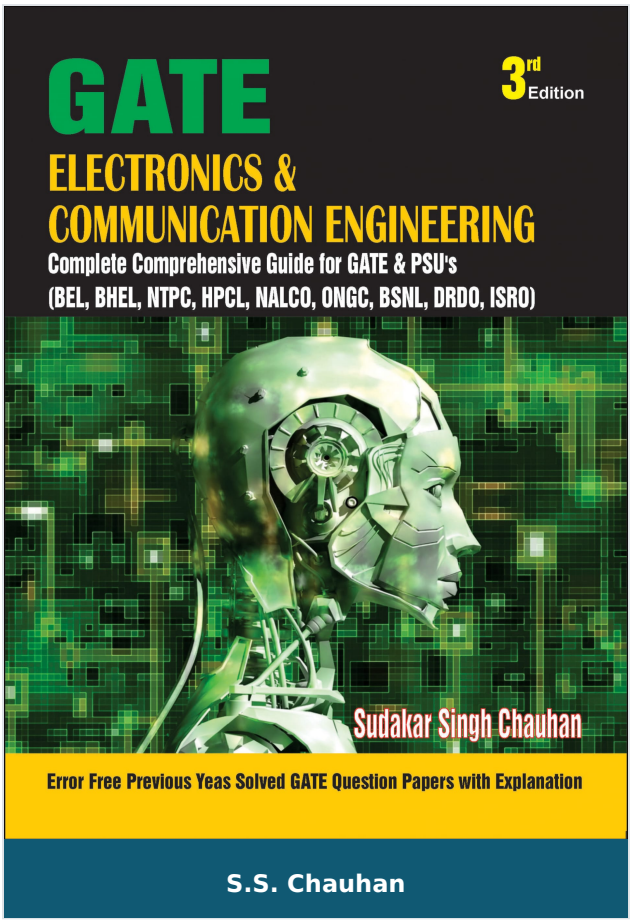
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GATE Electronics & Communication Engineering

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Product Description

This book contains topic wise solved 20 years paper of GATE in electronics & communication engineering and 5 fully solved new questions for GATE examination to provide to approach and relevancy for the GATE examination. Efforts have been made to provide error free answer & tricky solutions and explanations. It has been kept in consideration that the book should fulfill the need of GATE examination standard and syllabus.

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- Gate 2015 Solved Paper
- Model Test Paper-1
- Model Test Paper-2
- Model Test Paper-3
- Model Test Papre-4
- Model Test Paper-5

Author

S.S. Chauhan

S.S. Chauhan Sudakar Singh Chauhan is presently working as an Assistant Professor in the department of Electronics and Communication Engineering at NIT Kurukshetra,

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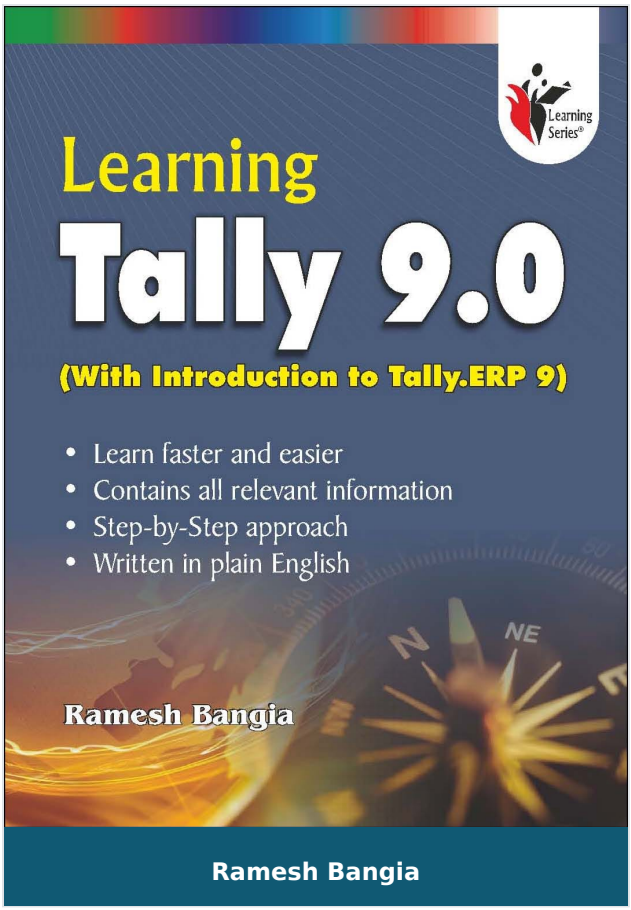
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Haryana, India. He worked in BSNL (BSNL_JTO) as a Switch Engineer and later on resigned so that he can contribute his knowledge & experience for the betterment of young generation. He was involved in GATE preparation classes and had taught several core courses like Electronics Devices & Analog Circuits, Digital Electronics, Signals & Systems, Control Systems, Microprocessor, Analog and Digital Communication etc.

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Learning Tally 9.0 (with Introduction to Tally.ERP 9)

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Country Origin :	India

Product Description

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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- Service Tax, TDS & FBT in Tally
- Entering Vouchers In Tally 9.0
- Moving On To Tally ERP 9
- Keyboard Shortcuts
- Question

Author

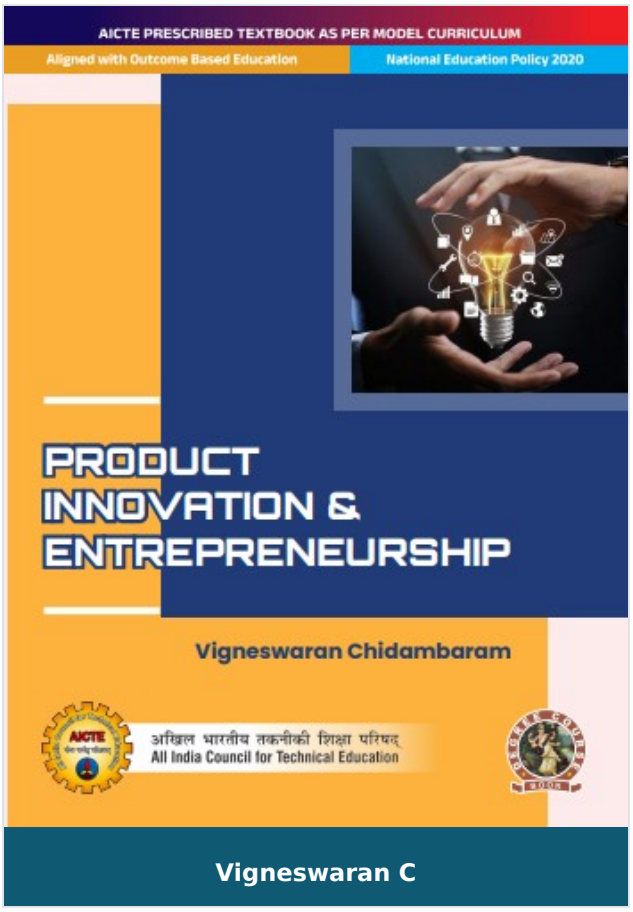
Ramesh Bangia

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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Product Innovation & Entrepreneurship

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Product Description

Product Innovation & Entrepreneurship

This comprehensive book explores into the realms of product innovation and entrepreneurship, combining theoretical concepts with practical applications. It provides an in-depth exploration of topics such as innovation management, design thinking, market analysis, and venture creation. The logical organization of content and a plethora of problems with step-by-step solutions make this book an indispensable resource for students and practitioners alike.

Salient Features:

- The content of the book is meticulously aligned with the mapping of Course Outcomes, Program Outcomes, and Unit Outcomes, ensuring relevance and applicability to academic and professional settings.
- Each unit begins with clearly defined learning outcomes, empowering students to understand the expected competencies upon completion of the unit.
- The book incorporates abundant recent information, interesting facts, QR codes for accessing E-resources, and QR codes for leveraging ICT tools, enriching the learning experience for both students and teachers.
- It encompasses a balanced and chronological presentation of subject materials, catering to the needs of diverse learners.
- Enhanced clarity is achieved through the inclusion of figures, tables, and software screenshots, facilitating better comprehension of complex topics.
- An additional ‘Know More’ section in each unit encourages students to delve deeper into the subject matter, fostering a culture of continuous learning beyond the syllabus.

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- Practice exercises, including short questions, objective questions, and long answer exercises, are provided at the end of each chapter to reinforce learning and enhance retention.
- Solved and unsolved problems, including numerical examples, are systematically addressed, aiding students in honing their problem-solving skills and reinforcing theoretical concepts with practical application.

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- Product innovation
- Marketing and finance
- Venture creation
- Course project
- References for suggested Reading
- CO attainment table
- Index

Author

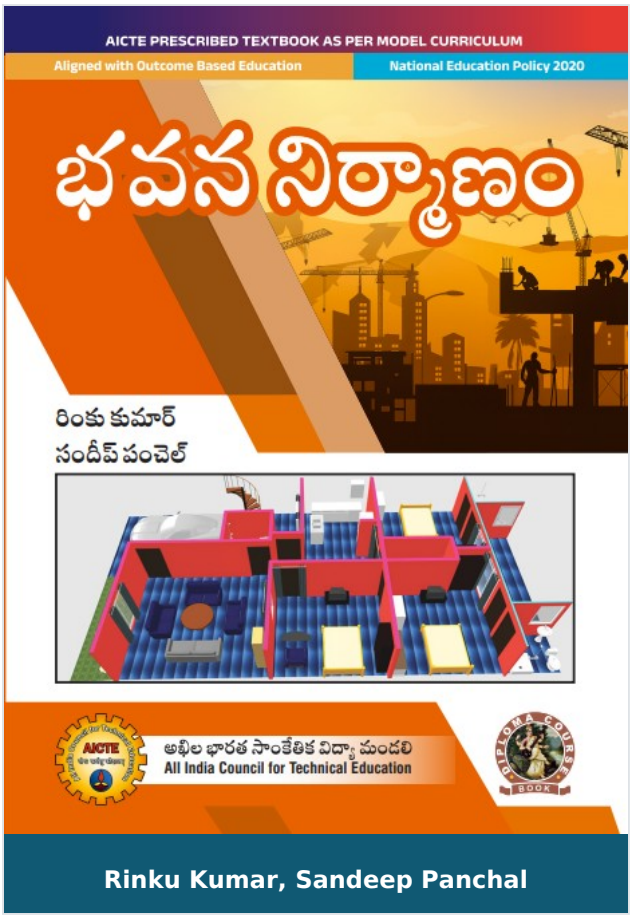
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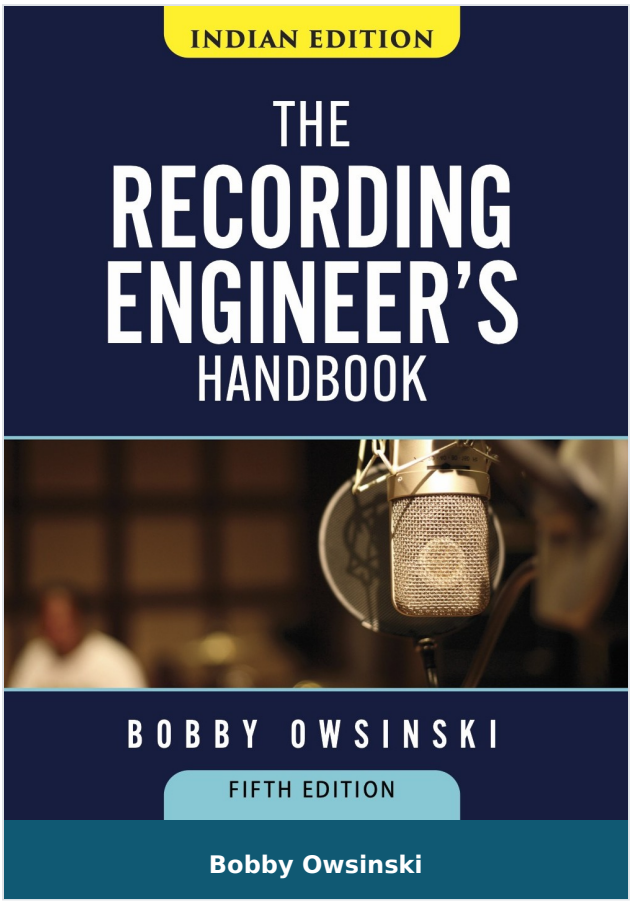
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The Recording Engineer's Handbook (Indian Edition)

Author :	Bobby Owsinski
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Product Description

The Recording Engineer’s Handbook by Bobby Owsinski has become a music industry standard found in studios all over the world, and this fully updated fifth edition once again offers the most comprehensive and up-to-date overview of the art of audio recording. Written with today’s technology and workflows in mind. The Recording Engineer’s Handbook Fifth Edition is a must-have resource for anyone interested in recording either in their home or a commercial studio.

In the book’s first section, you’ll learn everything from how microphones work to specific techniques for recording drums, individual instruments, vocals and much more. In the second section you’ll benefit from the wisdom and down-to-earth practical advice offered by a host recording professional including all-time greats like Al Schmitt, Eddie Kramer, Sylvia Massy and many others.

Topics include:

Besides the ever-popular sections on recording gear, gain staging and levels, recordings for just about any instrument, and interviews with some of the world’s most honored recording engineers, this 5th edition contains new topics like.

. The latest in recording and microphone technology

. An overview of modeling microphones

. A complete overview of immersive recording techniques

. A new section on cleaning and disinfecting your microphones

. The latest recording methods for drum sounds and individual instruments

. Home studio recording techniques

. And four new interviews with top engineers

Learn the art of recording with renowned author, teacher, producer and engineer Bobby Owsinski, and, in the interviews, explore the creative processes behind not only today’s hits but the classic cuts we’ve enjoyed for years. See for yourself why the Recording Engineer’s Handbook, Fifth Edition is the book that’s a standard text in college music production courses all over the world.

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- Recording Drums
- Miking Individual Instruments
- Recording Basic Tracks
- Recording Overdubs
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- PART II
- Chuck Ainlay
- Michael Bishop
- J.J. Blair
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- Dennis Moody
- Barry Rudoph
- Al Schmitt
- Glossary
- About Bobby Owsinski

Author

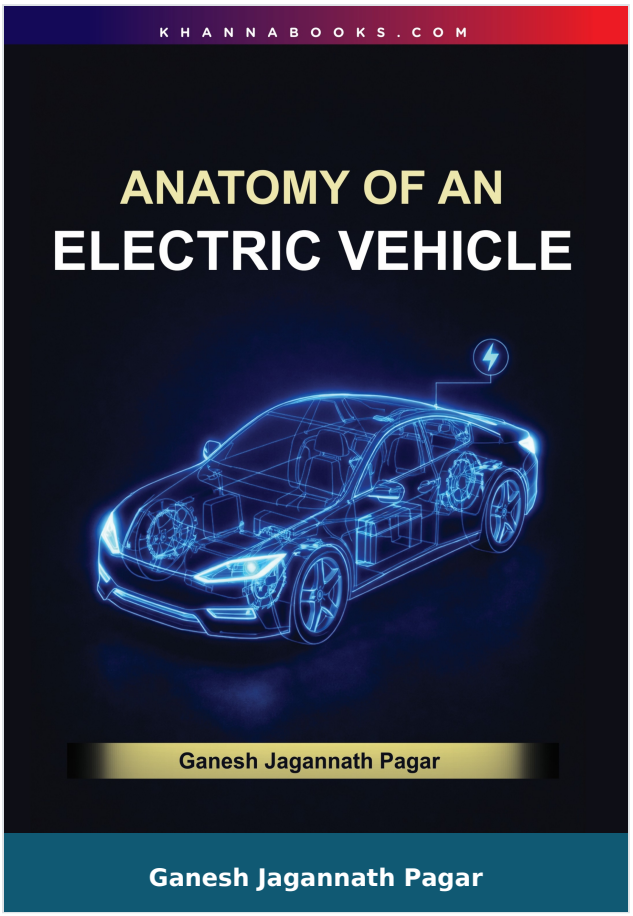
Bobby Owsinski

Bobby Owsinski is one of the bestselling authors in the music industry with 24 books that are staples in audio recording, music and music business programs in colleges around the world, including the Mixing Engineer’s Handbook, The Music Producer’s Handbook, Music 4.0: A Survival Guide for Making Music in the Internet Age, and more. He’s also a contributor to Forbes covering the new music business, his popular production and music industry blogs are over 8 million visits, and he’s appeared on CNN and ABC News as a music branding and audio expert. Visit BobbyOwsinskiBlog.com, his music industry blog at Music3Point0.com, his podcast at BobbyOInnerCircle.com, and his website at BobbyOwsinski.com.

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Anatomy of An Electric Vehicle

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Product Description

Anatomy of An Electric Vehicle

This book has been written with a simple and clear purpose, to help readers understand electric vehicles in an easy and practical way. As a teacher and an author, I have often noticed that many students and technology enthusiasts are curious about EVs, but they get overwhelmed by complicated technical terms. This book is my effort to make that journey easier and more enjoyable.

In these pages, you will learn how electric vehicles work, their key components, vehicle layouts, and battery technologies. I have also explained how EVs compare with conventional vehicles, along with insights into the growth of electric mobility in India, important government policies, and real-world examples from leading manufacturers. Every topic is presented step by step in simple language so that beginners, students, and technical learners can build strong fundamentals without feeling lost.

My aim is not only to share information but to build real understanding and confidence about the future of mobility. I truly hope this book encourages readers to explore further, keep learning, and become part of the exciting and evolving world of electric vehicles.

Salient Features:

- **Fundamentals of Electric Vehicles**: Clear explanation of EV basics, working principles, and how they differ from conventional vehicles.
- **Core EV Components Explained**: Structured understanding of battery packs, electric motors, power electronics, and control systems.
- **Vehicle Layout and Architecture**: Simple explanation of EV design, including battery placement and motor configuration.
- **Battery Technology**: Covers lithium-ion batteries and emerging future battery technologies.

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- **Charging Systems and Infrastructure**: Overview of home charging, fast charging, and the importance of charging networks.
- **Indian EV Policies and Industry Insights**: Discusses government initiatives like the FAME India Scheme and examples from leading manufacturers such as Tesla.
- **Student-Friendly Learning Approach**: Written in simple language, ideal for diploma, engineering, and technical students.

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- Electric Vehicles
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- Transmission Systems
- Vehicle Fundamentals
- Conversions and Motors
- Hybrid Powertrain

Author

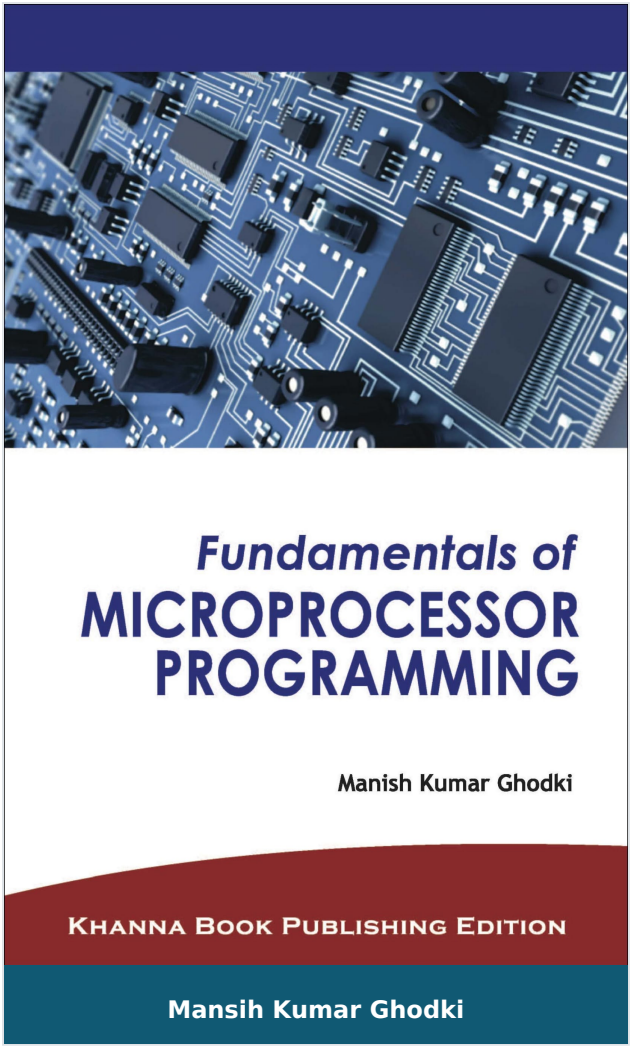
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Fundamentals of Microprocessor Programming

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Product Description

Suitable for solving GATE and other competitive exam questions. The book contains 40 different assembly language programs in a separate chapter. The book contains 100 working examples of all types of instruction opcodes of the 8085 microprocessor in a single chapter. It has more than 300 illustrations, exercise questions for easy and better understanding. 'All-in-one' view in column writing format for quick understanding. Suitable for diploma, degree and postgraduate courses. Step-by-step knowledge towards the programming of the microprocessor. The microprocessor 8085 can be used to its full capability if one knows the programming fundamentals given in this book.

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- Assembly Language Programming Of 8085 Microprocessor
- Timing Diagrams Of 8085 Microprocessor
- Microprocessor T- state & Machine Cycles
- Microprocessor Instruction Set (Alphabetically)
- Microprocessor Instruction Set (Hex Code Wise)

Author

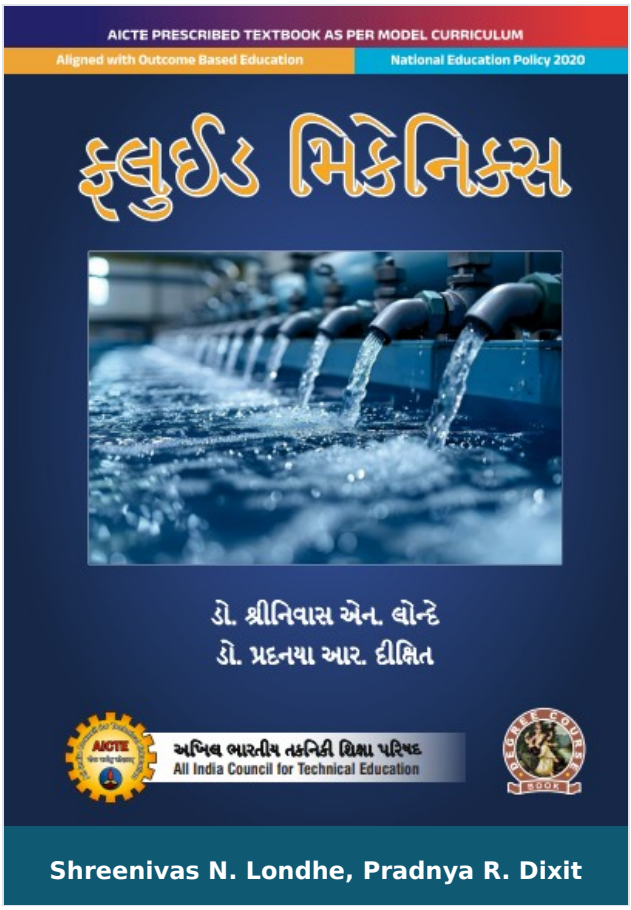
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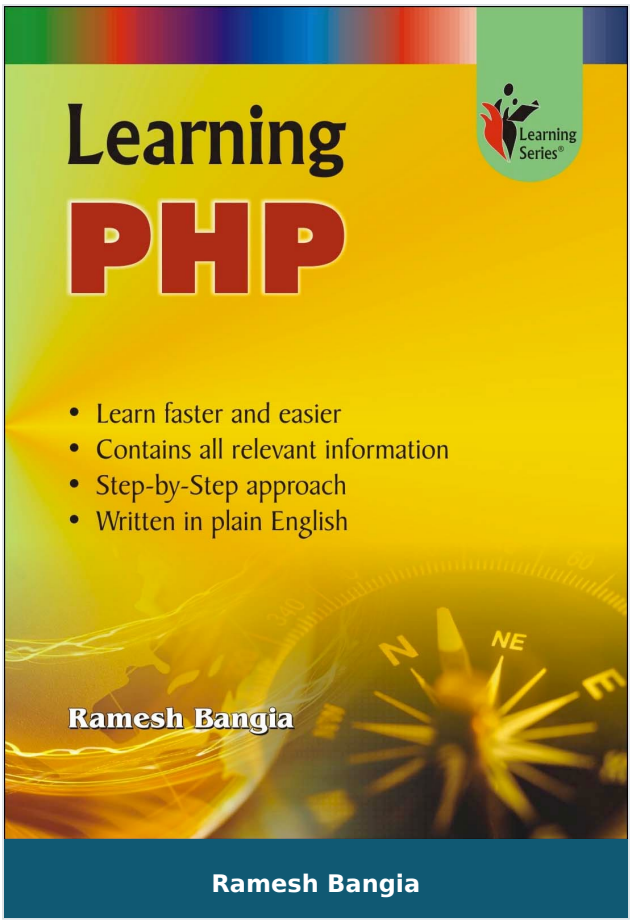
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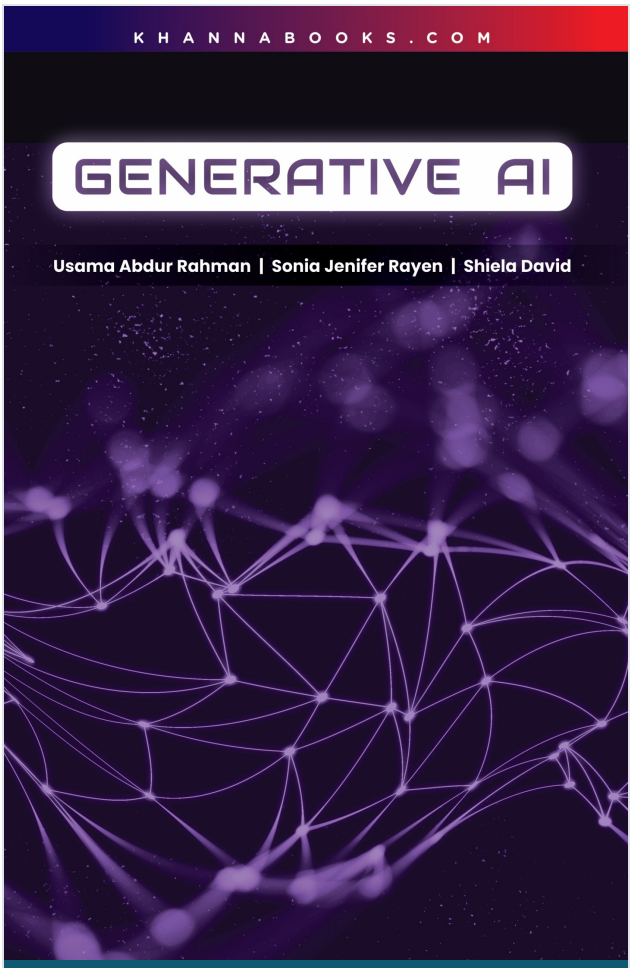
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Sonia Jenifer Rayen, Shiela David, Usama Abdur Rahman

Generative AI

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Generative AI (Gen AI) has rapidly evolved from a theoretical concept into a transformative technology capable of simulating human creativity, generating content, producing innovative ideas, and enabling autonomous decision-making. This book serves as a comprehensive and structured guide to understanding the foundations, architectures, applications, and future directions of Generative Artificial Intelligence. Designed for students, researchers, professionals, and technology enthusiasts, it provides both theoretical insights and practical perspectives on one of the most influential fields in modern computing.

The text begins by tracing the historical evolution of Artificial Intelligence, highlighting key milestones that shaped the development of machine learning and intelligent systems. It then builds a strong conceptual foundation by introducing Neural Networks and the revolutionary Transformer Architecture, which forms the backbone of modern generative systems. Special emphasis is placed on the Attention Mechanism, encoder-decoder architectures, and the emergence of Large Language Models (LLMs) that power advanced conversational and content-generation systems.

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The practical relevance of Generative AI is demonstrated through extensive real-world applications across healthcare, finance, manufacturing, software engineering, media, and entertainment. The text also addresses critical contemporary topics including model

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evaluation metrics, ethical considerations, responsible AI development, and emerging innovations such as Quantum AI and Neuromorphic Computing. By combining academic rigor with practical implementation, this book provides a complete roadmap for mastering the rapidly evolving landscape of Generative Artificial Intelligence.

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- Foundational AI Concepts: Provides a detailed overview of the history and evolution of Artificial Intelligence, establishing a strong foundation in neural networks, machine learning, and the development of generative technologies.
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- Model Evaluation and Future of Generative AI

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