



Artificial Intelligence Search Methods & Reasoning

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

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Country Origin : India

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:

- **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.

Table Of Contents

- Foundations of Artificial Intelligence
- Searching Towards Solution
- Knowledge: Role and Representation
- Approaches Behind Planning and Reasoning
- Learning an Communication

Author

Lekshmi S. Raveendran

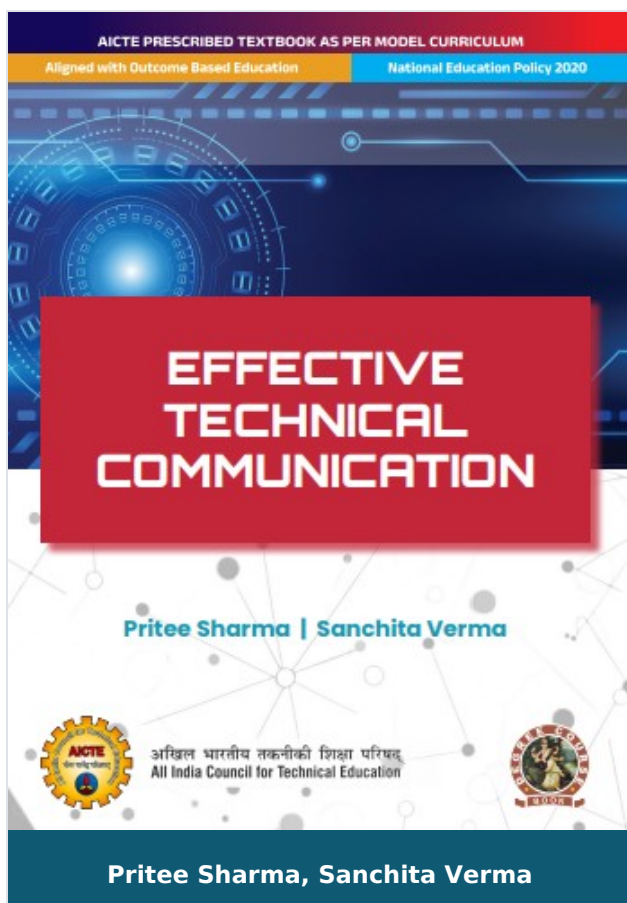
Lekshmi S. Raveendran

Minu Susan Jacob

Minu Susan Jacob

Selvapriya

Selvapriya



Effective Technical Communication

Author : Pritee Sharma, Sanchita Verma

ISBN 13 : 978-93-55387-86-8

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Pages : 184

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Categories : [AICTE Prescribed Textbooks,](#)
[English Books, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Effective Technical Communication

This book is a comprehensive guide into the sphere of technical communication. In the contemporary time, the workplace has become global, and communication is increasingly becoming more challenging and complex. This book serves as an essential guide to understand and develop technical skills in organizational communication.

Starting with the basics of communication process, this book delves into business communication, e-correspondence and various facets of planning and preparing a document for technical communication purposes.

Salient Features:

- Detailed alignment of content with course outcomes, program outcomes and specific unit outcomes
- each unit begins with clear learning objectives and pre-reading activity, preparing the reader to acquire necessary skills and knowledge.
- The book is enriched with latest information, interesting facts and QR codes linking to valuable e-resources for further information.
- An interesting blend of student and teacher centric materials, presented in a logical and coherent manner.
- Appropriate use of figures, tables and formats for better understanding of the concepts.
- Know more sections in each unit, encouraging readers to explore beyond the standard syllabus.
- Exhaustive exercises including MCQs and subjective questions provided at the end of each chapter.

- This book is not just an academic tool, but a bridge to the contemporary professional world of technical communication making it a must have anyone stepping into the realm of organizational communication.

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- Foreword
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- Routine technical communication
- E-communication
- Planning and preparing documents for technical communication
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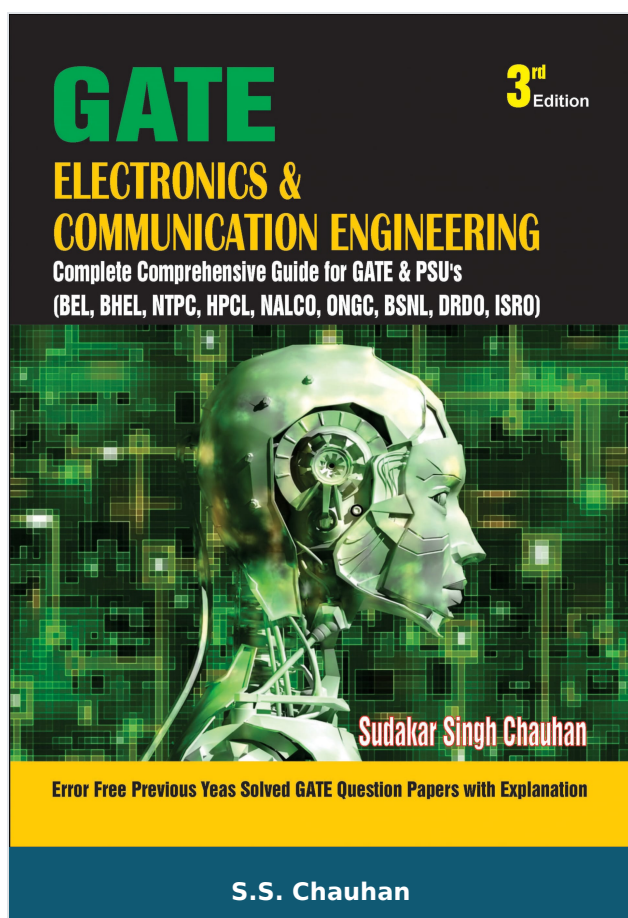
Author

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GATE Electronics & Communication Engineering

Author :	S.S. Chauhan
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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

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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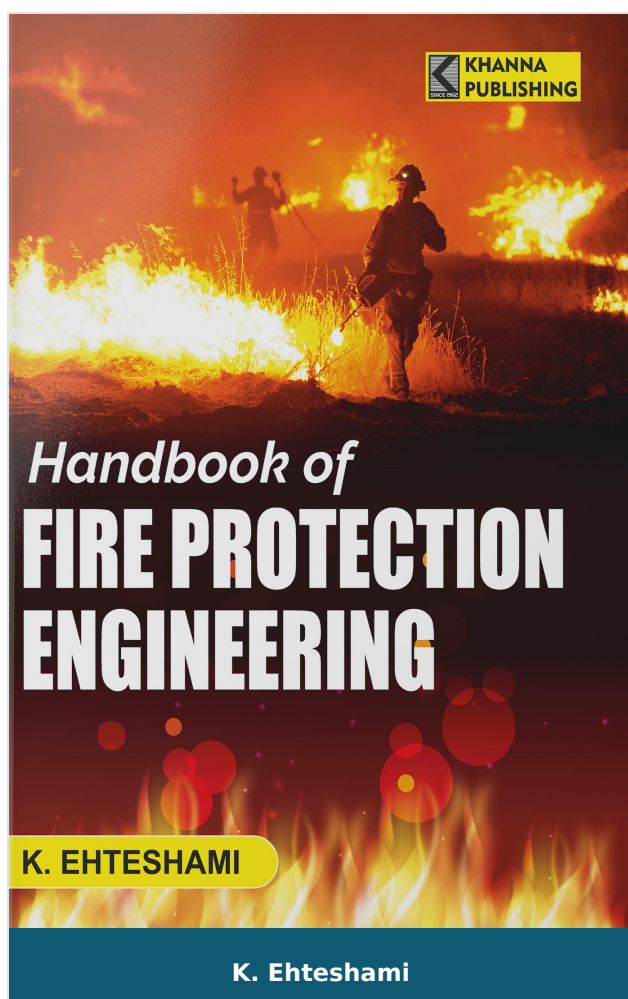
- Network Theory
- Electronic Devices & Analog Circuits
- Digital Circuits
- Microprocessors
- Control System
- Signals & System
- Communication System
- Electromagnetic Field Theory
- Engineering Mathematics
- General Aptitude
- Gate 2013 Solved Paper
- Gate 2014 Solved Paper
- Gate 2015 Solved Paper
- Model Test Paper-1
- Model Test Paper-2
- Model Test Paper-3
- Model Test Paper-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,

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.



Handbook of Fire Protection Engineering

Author :	K. Ehteshami
ISBN 13 :	978-93-89139-18-1
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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.

Table Of Contents

- Introduction to Fire Protection
- Antifreeze System
- Deluge System
- Dry Pipe System
- Exposure Protection System
- Firecycle System
- Foam System
- Halon Systems
- Preaction System
- Wet Pipe System
- Explosion Protection System
- Light Hazard Occupancies
- Ordinary Hazard Occupancies
- Extra Hazard Occupancies
- Introduction to Hydraulic Calculations
- Hydraulically Designed Loop and Grid Systems
- Fire Protection for Homes and Mobile Homes
- Fire Protection for Mid-Rise Buildings
- Fire Protection for High-Rise Buildings
- Fuel Use and Storage
- Flammable or Combustible Liquids
- Highly Flammable Liquids and LPG
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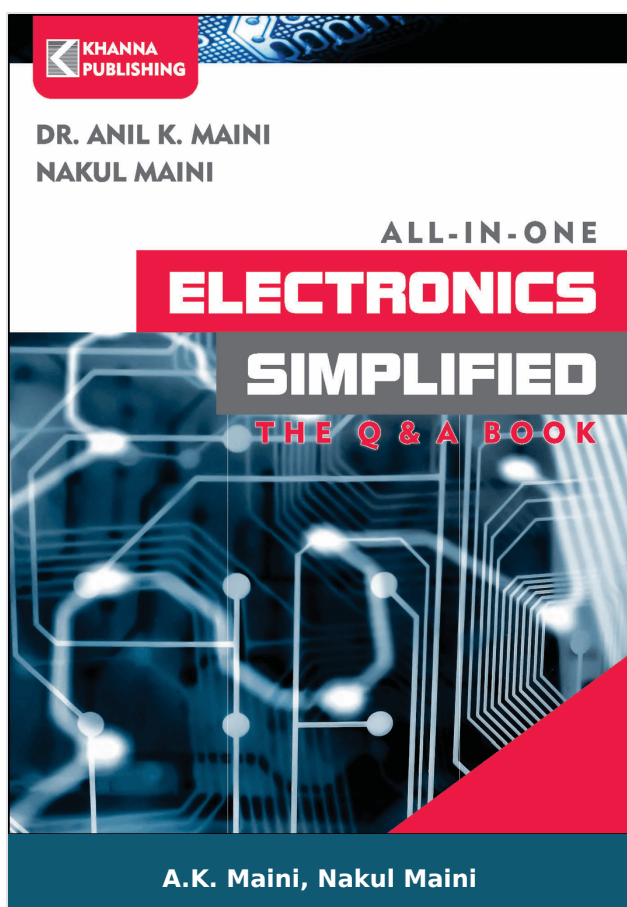
- Fire Protection in Historical Buildings
- Early Detection Alarms
- Fire Protection for Aircraft Hangars
- Smoke Detectors
- Fire Protection at the Job Site
- Fire Protection for Storage
- Rack Storage of Materials
- Centrifugal Fire Pumps
- Break Tanks
- Fire Service
- Fire Protection for Storage of Rubber Tires
- Fire protection Signaling Systems
- Heat Detectors
- Fire Protection for Data Processing Centers
- Hand-Held Extinguishers
- Carbon Dioxide Extinguishing Systems
- Dry Chemical Systems
- Fire Protection for Nuclear Power Plant
- Cooling Tower
- Safety at the Work
- Fire Safety
- Industrial Explosion Prevention
- OSHA
- Fire Safety in the Home
- Explosive Dust

- Atmospheric Tanks
- Fire Protection for Chimneys
- Fire Protection for Aircraft Cabin
- Fire Protection for Hotels
- Plant Safety and Fire Protection
- Safety Training
- Flame Retardant
- Fire Brigades
- Loss Control
- Safety Movement in the United States
- Mine Safety
- Occupational Safety Program

Author

K. Ehteshami

K. Ehteshami Keyoumars Ehteshami was born to a Khan family from Bakhtiari tribe located in Zagros mountains in southwest Iran. He finished Elementary School in Shar kord, Iran and for High School, he attended Alborz High School, a private Kschool; in Tehran. Upon graduation from Alborz he attended University of Text and obtained a Bachelor of Science degree (B.S.) in Mathematic and Physical Science. Later he obtained Professional Engineering registration (P.E.) from Princeton University. He also holds a Master degree in Business Management (M.B.A.) from National University in Los Angeles. For the past 44 years he has worked as project engineer, project manager and consulting engineer in the United States.



All-in-One Electronics Simplified

Author :	A.K. Maini, Nakul Maini
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M.R.P :	Rs 725.00
Categories :	Electrical, Electronics & Communication Engineering, OBJECTIVE TYPE BOOKS, Book Store
Condition Type :	New
Country Origin :	India

Product Description

The All-in-one Electronics Simplified is comprehensive treatise on the whole gamut of topics in Electronics in Q &A format. The book is primarily intended for undergraduate students of Electronics Engineering and covers six major subjects taught at the undergraduate level students of Electronics Engineering and covers six major subjects taught at the undergraduate level including Electronic Devices and Circuits, Network Analysis , Operational Amplifiers and Linear Integrated Circuits, Digital Electronics, Feedback and Control Systems and Measurements and Instrumentation. Each of the thirty chapters is configured as the Q&A part followed by a large number of Solved Problems. A comprehensive Self-Evaluation Exercise comprising multiple choice questions and other forms of objective type exercises concludes each chapter.

Table Of Contents

- Resistors and Resistive Networks
- Capacitors and Capacitive Networks
- Inductors and Transformers
- Hardware Electronic Components
- Network Fundamentals Network Graphs - Mesh Current Analysis - Node Voltage Analysis -RLC Transients - Voltage and Current Sources - Coupled
- Network Theorems
- Fourier Analysis of Waveform
- Two-Port Networks and State Equations
- Diodes and Transistors
- Field Effect Transistors
- UJT's and Thyristors
- Optoelectronic Devices
- Amplifiers
- Oscillators Sinusoidal and Non-sinusoidal
- Linear Power Supplies
- Switched Mode Power Supplies
- Wave Shaping Circuits
- Operational Amplifiers Fundamental-Types-Characteristic Parameters
- Operational Amplifiers Application Circuits
- IC Timers
- Phase Locked Loops

- Digital Electronics Fundamental Number Systems and Codes-Binary Arithmetic Boolean Algebra and Minimisation Techniques
- Logic Gates Logic Families and Combinational Logic Circuits
- Sequential Logic Circuits Flip Flop, Counter and Register
- D/A and A/D Converters
- Microprocessors and Memory Devices
- Programmable Logic Devices Proms - PALs -Microcontrollers - CPLDs - FPGAs
- Feedback and Control Systems
- Electrical Measurements and Instrumentation
- Sensors and Transducers

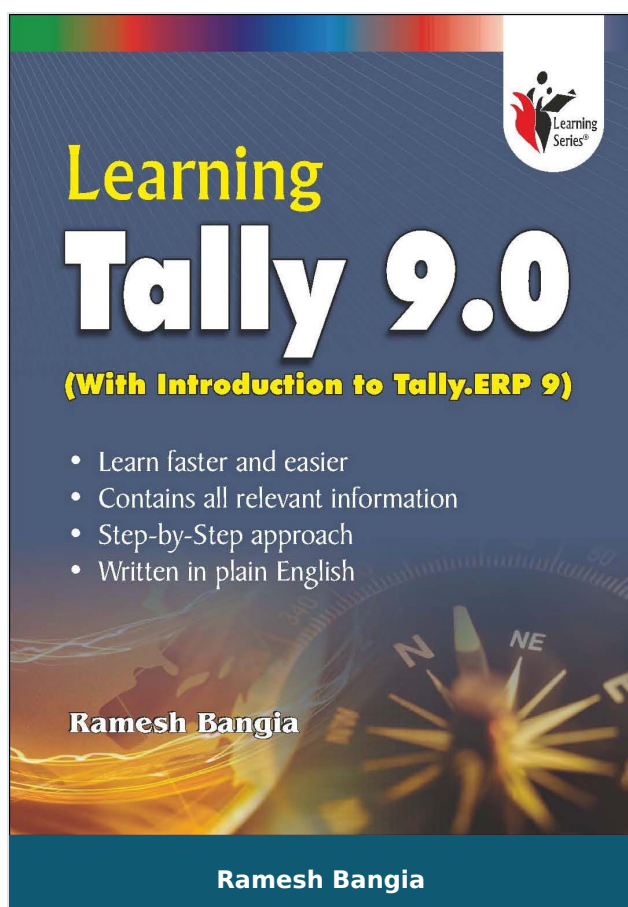
Author

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 than 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.

Nakul Maini

Nakul Maini



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

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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 225.00
Categories :	Computer Books - English, Book Store, Learning Series
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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.

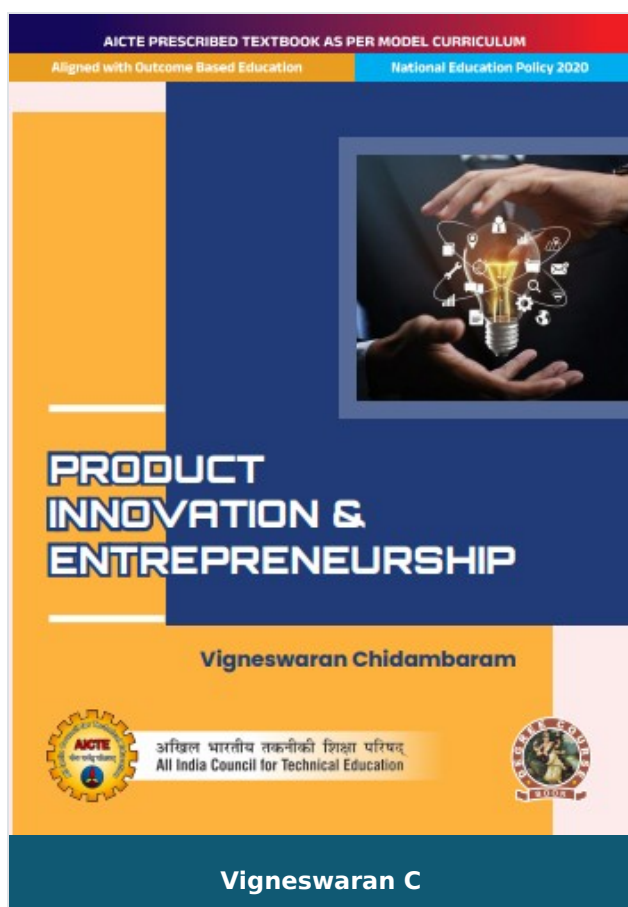
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- Getting Started With Tally 9.0
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- Multilingual Feature In Tally 9.0
- Value Added Tax(VAT) In Tally
- Service Tax, TDS & FBT in Tally
- Entering Vouchers In Tally 9.0
- Moving On To Tally ERP 9
- 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 East and African countries.



Product Innovation & Entrepreneurship

Author :	Vigneswaran C
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E-ISBN 13 :	978-93-55383-75-4
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Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

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.

- 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.

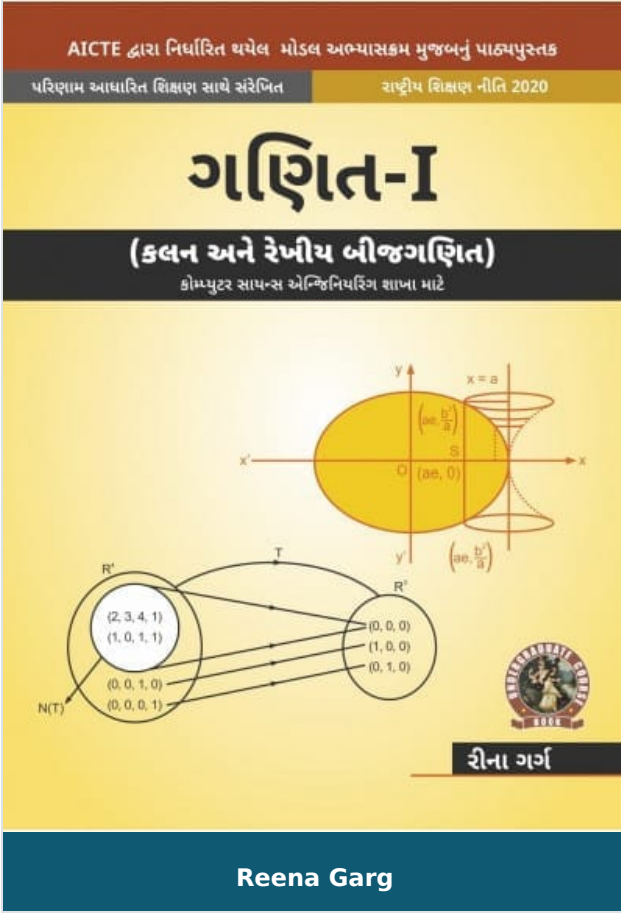
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- Venture creation
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- Index

Author

Vigneswaran C

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

Author :	Reena Garg
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Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
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Condition Type :	New
Country Origin :	India

Product Description

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

Some Salient Features of the Book:

1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.
2. Emphasis on the applications of concepts and theorems.
3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.
4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student's practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the student's capability, to increase the feeling of team work.

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

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

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

Table Of Contents

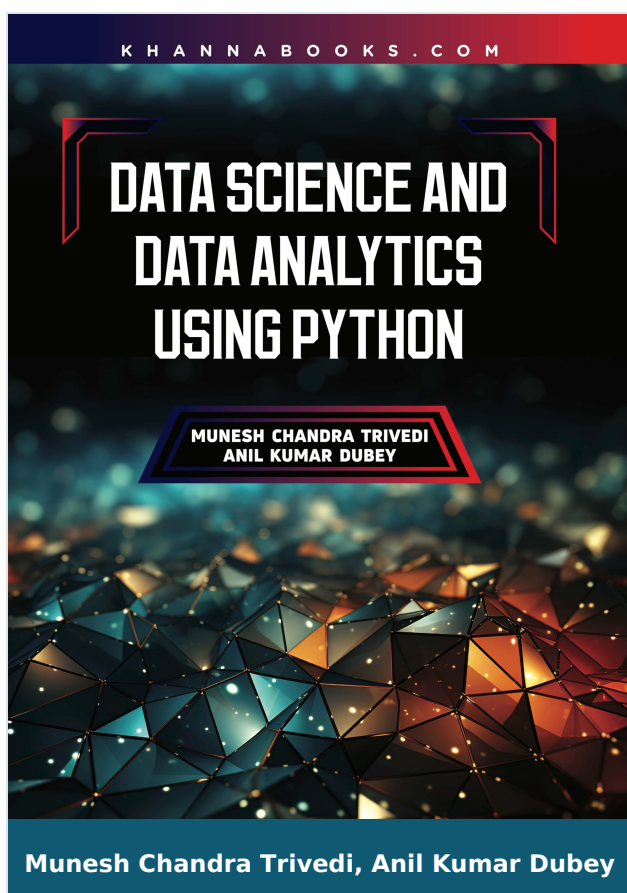
- Foreword
- Acknowledgement
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- Outcome Based Education
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- Guidelines for Students
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- Calculus-II
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Author

Reena Garg

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

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



Data Science and Data Analytics Using Python

Author : Munesh Chandra Trivedi, Anil Kumar Dubey

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Condition Type : New

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Product Description

The book is a comprehensive guide that delves into the fundamentals of data science and analytics, leveraging the python programming language. The covers key topics such as data manipulation, visualization, statistical analysis, and machine learning. It includes practical examples and code snippets to help readers understand and implement various data science techniques. Designed for both beginners and experienced practitioners, it provides a thorough understanding of how to use python for effective data analysis. The book also emphasizes real-world applications making it a valuable resource for those looking to apply data science skills in various domains.

SALIENT FEATLURES OF BOOK:

1. The textbook encompasses an extensive array of data science topics, including data pre-processing, visualization, statistical analysis, machine learning, with a pronounced emphasis on practical applications using python programming.
2. It integrates case studies derived from real-world scenarios alongside numerous exercises, facilitating hands-on practical experience.
3. The text provides details procedural guidance for implementing data science projects and explores various data visualization techniques utilizing libraries such as Matplotlib, Seaborn, and plotly.
4. It thoroughly examines a diverse range of machine learning algorithms and offers an introductory overview of deep learning concepts and frameworks, including Tensor flow, and Keras.
5. The textbook incorporates expert tips, best practices, and focuses on high-demand skills, rendering it an invaluable resource for both novice and seasonal practitioners in the field of data science and analytics.

Table Of Contents

- Introduction of Data Science.
- Python Programming.
- Numpy and Pandas Library.
- Scikit Learn and Scipy Library.
- Data Manipulation.
- Modeling Techinques.
- Data Visualization.
- Data Visualization.
- Pre Processing.
- Statistics of Data Analytics.
- Regression.
- Classification.

Author

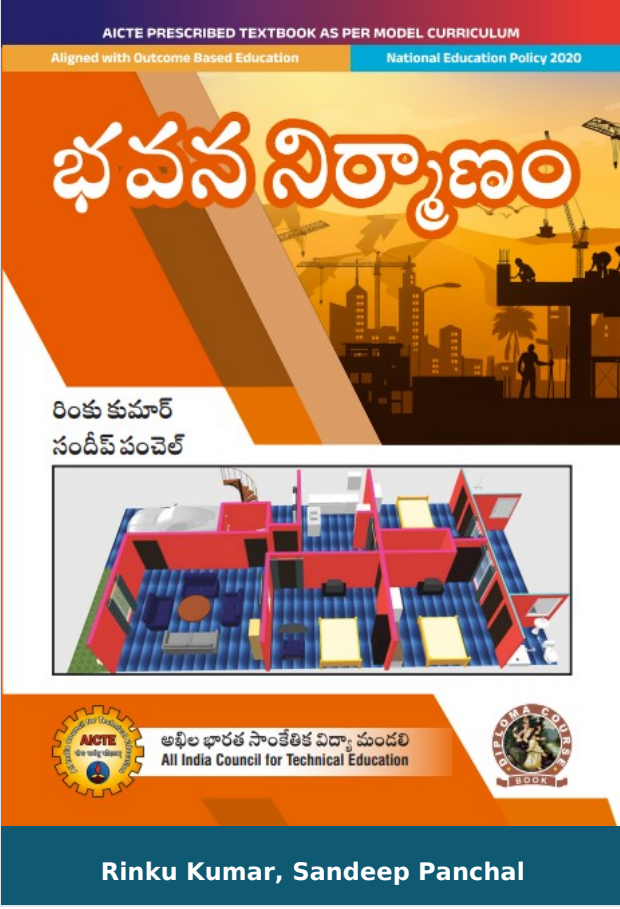
Munesh Chandra Trivedi

Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College,

Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32 international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

Anil Kumar Dubey

Munesh Chandra Trivedi Anil Kumar Dubey



Building Construction

Author :	Rinku Kumar, Sandeep Panchal
ISBN 13 :	978-93-55384-08-9
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M.R.P :	Rs 448.00
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Product Description

Building Construction

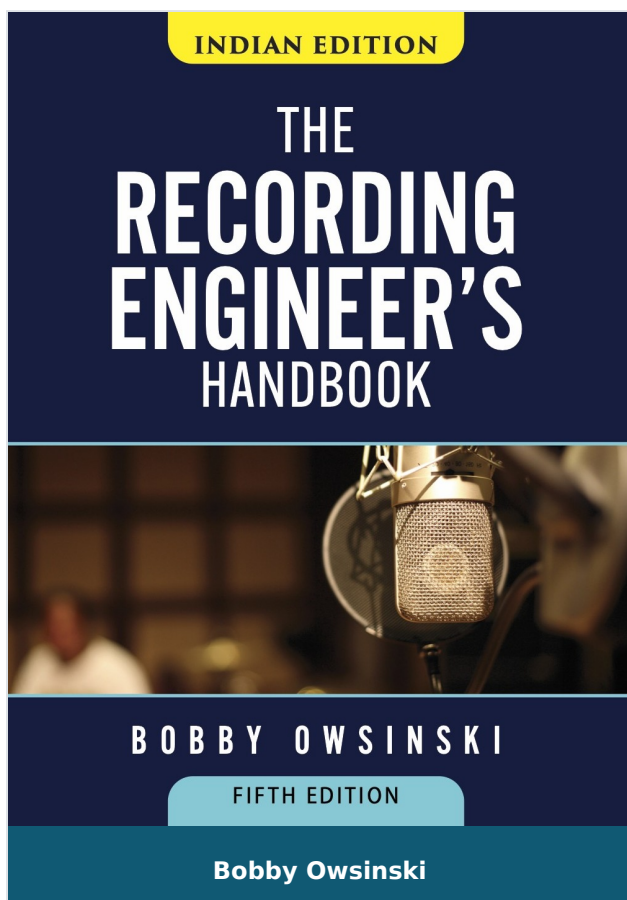
Author

Rinku Kumar

Dr. Rinku Kumar Assistant Professor, Lecturer, Government Polytechnic Mankeda, Agra, Uttar Pradesh Dr.

Sandeep Panchal

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The Recording Engineer's Handbook (Indian Edition)

Author :	Bobby Owsinski
ISBN 13 :	978-93-55385-16-1
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E-ISBN 13 :	978-93-55385-16-1
Edition :	Fifth Edition
Pages :	325
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 898.00
Categories :	Emerging Technologies, Book Store
Condition Type :	New
Country Origin :	India

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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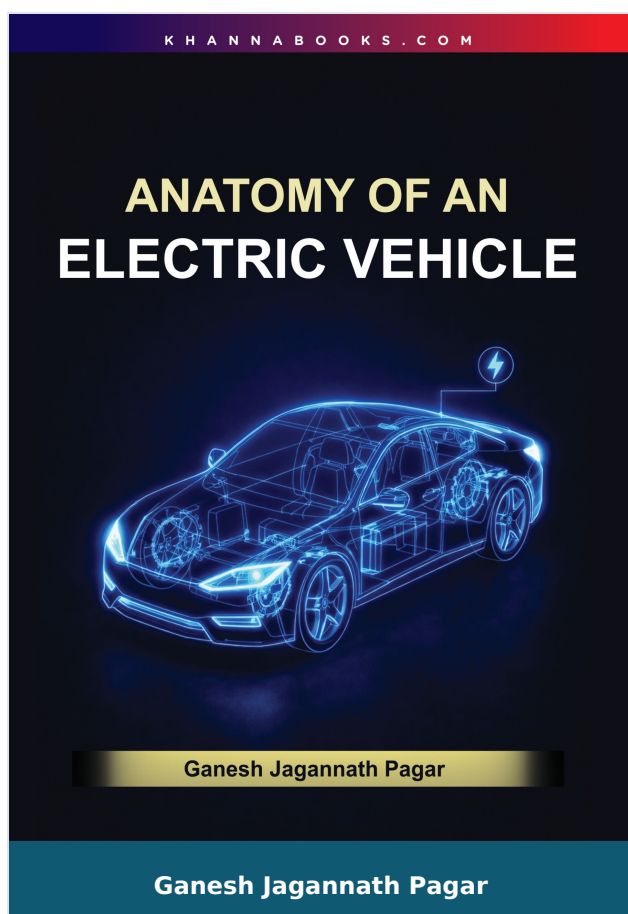
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Author

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 BobbyOlnnerCircle.com, and his website at BobbyOwsinski.com.



Anatomy of An Electric Vehicle

Author : Ganesh Jagannath Pagar

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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.

- **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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Author

Ganesh Jagannath Pagar

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