

Exploring Tomorrow (The Comprehensive Guide to Robotics and Automation)

Author :	A. B. Bhattacharya
ISBN 13 :	978-93-55387-25-7
ISBN 10 :	93-55387-25-3
E-ISBN 13 :	978-93-55387-25-7
Edition :	1
Pages :	416
Type of book :	Paperback
Weight (g) :	630.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 575.00
Categories :	Emerging Technologies
Condition Type :	New
Country Origin :	India

Khanna Publishing House



Product Description

Salient Features of the Book: 1. Covers industrial, service, domestic, healthcare, education, entertainment robots, and autonomous vehicles. 2. Focuses on human-robot collaboration, ethical challenges, privacy, and job displacement issues. 3. Details the technologies behind self -driving cars and autonomous drones. Covering Al, sensor fusion, computer vision, and control systems. 4. Explores surgical robots, rehabilitation robotics, telemedicine, and their contributions to healthcare. 5. Discusses agricultural robots for tasks like planting, weeding, harvesting, and livestock management. 6. Examines educational robots like LEGO Mind storms, Ozobot, and Sphero, and their integration into curricula. 7. Highlights the role of robotics in space missions, including rovers, unmanned spacecraft, and teleportation. 8. Explores robots used in search and rescue, hazard environments, mapping, and medical assistance. 9. Discusses robots in theme parks, robotic performers, customer service, and logistics.11. Discusses trends in automation, collaborative robotics, and their impact on the workforce.12. Focuses on automation in manufacturing, robotic arms, robots, and cyber security. 13. Addresses technical challenges, research efforts, and the future of robotics. 14. Envisions future developments like swarm robotics and human- like androids.15. Numerical problems, short questions, MCQs, project works, and others for all the chapters.

Table Of Contents

Chapter 1. Various Types of Robotics. Chapter 2. Human-Robot Collaboration: Ethics and Social Implications of Robotics. Chapter 3. Autonomous Vehicles and Drones: Part of the broader of Robotics and Al. Chapter 4. Robotics in Healthcare. Chapter 5. Robotics in Agriculture. Chapter 6. Robots in Education. Chapter 7. Robotics in Space Exploration. Chapter 8. Role of Robotics in Disaster Response. Chapter 9. Biologically-Inspired Robotics. Chapter 10. Robotics in Entertainment and Service Industries. Chapter 11. Autonomation and the Workforce: Emerging Trends. Chapter 12. Interconnected Domains of Industrial Automation and Robotics. Chapter 13. Robotics and Automation.



Khanna Publishing House

Authors

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". **Dr. Debasish Roy** is a highly accomplished and motivated professional with a robust academic background in Information Technology, including an MCA, MBA M. Tech, and PhD. He was currently the Director General (Railways) at a top-level position in the Indian Police Service (IPS). He received the Indian Police Medal and President's Police Medal in 2000 and 2010. He is well known for pioneering contributions in land mobile radio systems. He is highly recognized for spearheading strategic planning and execution of security measures for the railways network, implementing innovative technologies to enhance railway security and counteract emerging day-to-day operations efficiently. He has provided expert guidance on implementing land mobile radio system for public safety agencies and conducted groundbreaking research in cryptanalysis, leading to development of advanced techniques for enhancing cyber security. He successfully led a team in designing and implementing secure communication protocols for land mobile radio systems, ensuring robust and encrypted communication. He has published numerous research papers in reputed conferences. He mentored and guided students at the postgraduate and doctoral levels. He has a proven track record of effective leadership and team management, besides all his strategies planning and execution in highstakes environments. He received many honors and awards for his outstanding contributions to the field and was recognized for exceptional leadership and innovation in technology-driven security initiatives. He completed an Executive Program in Quantum Company and Machine Learning from IIT Delhi in 2023. He participated in the

Khanna Publishing House



Mastering Tally

Author :	Ajay Rana
ISBN 13 :	978-81-90645-13-3
ISBN 10 :	81-90645-13-7
E-ISBN 13 :	978-81-90645-13-3
Edition :	First
Pages :	416
Type of book :	Paperback
Weight (g) :	600.00
Year :	2008
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	ADVANCE COMPUTER BOOKS, Mastering Series
Condition Type :	New
Country Origin :	India

Product Description

Tally is an accounting software, very popular with the accountants and other computer users who need to do some accounting over the computer. It not only helps you in maintaining the accounts, but also helps you in taking care of your inventory, billing, invoicing, payroll, etc. No wonder it is the most popular one amongst its competitors. Various versions of the software are available in the market, with the latest being tally.ERP9. (version 2.1). This book, one of its kinds available in the market, is unique in nature since it covers all the versions in a single book. It traces back the various aspects of the software through the various options introduced in various versions. Obviously these options are there in the final version too, but it is important to know when and where they were introduced. So these topics are covered where they were introduced and not as part of the latest version, i.e., version 9.0. The versions covered here are from 7.2 to 9.0.

Khanna Publishing House

Chapter 1: Running Tally. Chapter 2: Creating Accounts Masters in Tally. Chapter 3: Creating Inventory Masters in Tally. Chapter 4: Entering Accounts Vouchers in Tally. Chapter 5: Entering Inventory Vouchers in Tally. Chapter 6: Display of Reports in Tally. Chapter 7: Introduction to Tally 72. Chapter 8: Introduction to VAT (Value Added Tax).
Chapter 9: Introduction to TDS (Tax Deducted at Source). Chapter 10: Introduction to Tally 8.1. Chapter 11: Fringe Benefit Tax in Tally. Chapter 12: The Collaboratory Tally. Chapter 13: The Administrative Tally. Chapter 14: Multilingual Features of Tally. Chapter 15: Introduction to Tally 9.0. Chapter 16: Payroll Accounting in Tally 9.0.
Chapter 17: Tally 9.0ver 2.1. Chapter 18: Keyboard Shortcut of Tally.

Authors

Dr. Ajit Mittal "Dr. Ajit Mittal M. Com. Ph.D. (U.P) MBA (Finance) Professor, Amity International Business School, Amity University, Noida." **Dr. Ajay Rana**

Dr. Ajay Rana

Professor, Department of Computer Science & Engineering Dean and Director, Amity University

1. 30+ patents under his name in the field of IoT, Network & Sensors. 2. 279+ Research publications. 3. Co-authored 6 Books. 4. Completed 30 Sponsored Research Projects. 5. Senior member, Academic Council & Executive Council, Amity University. 6. Strong corporate connect.



Khanna Publishing House



Information Systems

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-82609-33-9
ISBN 10 :	93-82609-33-4
E-ISBN 13 :	978-93-82609-33-9
Edition :	1
Pages :	416
Type of book :	Paperback
Weight (g) :	550.00
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P:	Rs 325.00
Categories :	Computer Science Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book discusses all the major areas in information systems with contemporary issues and their effects on business and organization. The main focus in on practical orientation and application of information systems and the emphasis in on real business scenarios. Each chapter provides spotlights on organization, technology or management related to the topics discussed. The book provides a board treatment of the core topics of information systems. Transaction processing systems, Knowledge management systems, Office automation systems, Management Information Systems, (MIS), Decision support systems, Accounting information systems, Inventory control systems, Marketing systems, and also the ethical and social issues involved in information systems.



Khanna Publishing House

Chapter 1: Information Concepts. Chapter 2: Information Capturing And Representation. Chapter 3: System
Concepts. Chapter 4: Information Systems. Chapter 5: Technologies For Information Systems. Chapter 6:
Transaction Processing Systems. Chapter 7: Knowledge Work And Office Automation Systems. Chapter 8:
Management Information Systems. Chapter 9: Decision Support Systems. Chapter 10: Executive Support Systems.
Chapter 11: Case Study Of Information Systems.

Author

Ikvinderpal Singh Ikvinderpal Singh, is Lecturer of P.G. Deptt. Of Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA with distinction from Guru Nanak Dev University, Amritsar. He has always been excellence right from his student carrier. He has written five books. He brought name for himself when he topped the college in B.Sc. His other areas of interest include Fuzzy systems, digital electronics and java programming.



Khanna Publishing House



Functions and Formulas	
Author :	WebTech Sol.
ISBN 13 :	978-93-80016-56-6
ISBN 10 :	93-80016-56-5
E-ISBN 13 :	978-93-80016-56-6
Edition :	1
Pages :	416
Type of book :	Paperback
Weight (g) :	590.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P:	Rs 295.00
Categories :	ADVANCE COMPUTER BOOKS, Mastering Series
Condition Type :	New
Country Origin :	India

Mastering Microsoft Excel

Product Description

Every effort has been made to supply complete and accurate information. However, the publishers and the author assume no responsibility for its use, for any infringement of the intellectual property rights of third parties, errors or omissions. Nor is any liability assumed for damages resulting out of the information contained herein.



Khanna Publishing House

Chapter 1: Spreadsheet Basics. Chapter 2: Advanced Techniques of Excel. Chapter 3: Charts in Excel. Chapter 4:
Database Functions in Excel. Chapter 5: Text Functions in Excel. Chapter 6: Financial Function in Excel. Chapter 7: Information Functions in Excel. Chapter 8: Logical Functions in Excel. Chapter 9: Lookup and Reference
Functions in Excel. Chapter 10: Math and Trigonometric Functions in Excel. Chapter 11: Logical Functions in Excel.
Chapter 12: Data and Time Functions in Excel. Chapter 13: Keyboard Shortcuts in Excel.

Author

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.



Khanna Publishing House

KHANNABOOKS.COM



Design and Analysis of Algorithms

Hitesh Singh | Nidhi Arora

KHANNA BOOK PUBLISHING EDITION

Design and Analysis of Algorithms

Author :	Hitesh Singh
ISBN 13 :	978-93-81068-81-6
ISBN 10 :	93-81068-81-X
E-ISBN 13 :	978-93-81068-81-6
Edition :	1
Pages :	416
Type of book :	Paperback
Weight (g) :	570.00
Year :	2013
Language :	English
Publisher :	Khanna Publishing House
M.R.P:	Rs 325.00
Categories :	Computer Science Engineering
Condition Type :	New
Country Origin :	India

Product Description

The focus of this book is on how to design good algorithms and how to analyze their efficiency. Various methods/ideas are explained with the help of examples which helps in developing fast and efficient algorithms. This book will also provide the correctness of algorithms and analyzing the algorithms. At the end of the chapters it chapters it has questions both solved and unsolved which has come in various Indian universities.



Khanna Publishing House

Chapter 1: Algorithm. Chapter 2: Analyzing & Design of Algorithm. Chapter 3: Asymptotic Growth of Function.
Chapter 4: Recursion. Chapter 5: Hashing. Chapter 6: Quick sort. Chapter 7: Heap Sort. Chapter 8: Sorting In
Linear Time. Chapter 9: Randomized Algorithm. Chapter 10: Elementary Data Structures. Chapter 11:
Introduction To Tree. Chapter 12: Red-Black Tree. Chapter 13: AVL Tree. Chapter 14: B-Tree. Chapter 15:
Binomial Tree. Chapter 16: Graph. Chapter 17: Graph Traversal. Chapter 18: Directed Acyclic Graphs. Chapter 19: Undirected Graphs. Chapter 20: Dynamic Programming. Chapter 21: Greedy Algorithm. Chapter 22: String
Matching. Chapter 23: Disjoint-Set Data Structures. Chapter 24: Sorting Network. Chapter 25: Maximum Flow.
Chapter 26: Amortized Analysis. Chapter 27: Approximate Algorithms. Chapter 28: NP-Completeness. Chapter 29: Matrix Operation. Chapter 30: Backtracting. Model Questions End-Term Examination

Authors

Hitesh Singh Hitesh Singh has done M. Tech from C-DAC, Noida, in CSE. His research area are information security, Steganography, Algorithms and Software Engineering. **Nidhi Arora** Dr. Nidhi Arora is MBA, MCA and doctorate in Computer Science. She is an author of various books and also published research papers in reputed generals.



Khanna Publishing House



Electromagnetic Fields and Waves

R.L. YADAVA

waves	
Author :	R.L. Yadava
ISBN 13 :	978-93-86173-54-6
ISBN 10:	93-86173-54-9
E-ISBN 13 :	978-93-86173-54-6
Edition :	First
Pages :	416
Type of book :	Paperback
Weight (g) :	560.00
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P:	Rs 425.00
Categories :	Electrical, Electronics & Communication Engineering, Electrical, Electronics & Communication Engineering
Condition Type :	New
Country Origin :	India

Electromagnetic Fields &

Product Description

This book is designed to serve as a textbook for UG and PG students of Electronics and Communication, Electronics and Electrical, Electronics & Instrumentation and Telecommunication Engineering branches. It provides a thorough understanding of the electromagnetic theory and their properties, application and also the modern trends in Electromagnetism in detail. Book also describes transmission lines, wave guides, as well as the effects of EMI/EMC, including impedance matching and antennas. Written in an easy-to-understand manner, the book includes several illustrative examples, objective-type questions and exercise Questions to reinforce the theoretical understanding of subject. Appendices provide information and expressions as well as design data for references.



Khanna Publishing House

Chapter 1: Introduction. Chapter 2: Vector Analysis and Coordinate System. Chapter 3: Electrostatic Fields.
Chapter 4: Magnetic Static Fields. Chapter 5: Maxwell's Equations and Uniform Plane Wave. Chapter 6:
Electromagnetic Waves and Flow of Power. Chapter 7:Transmission Lines. Chapter 8:Broadband Impedance
Matching. Chapter 9: Waveguides. Chapter 10:Principle of Radiation and Antennas. Chapter 11: Electromagnetic
Interference and Compactibility. Chapter 12: Solved Examples. Chapter 13: Objective Question Bank. Chapter 14: Objective Questions Test Series. Chapter 15: References. Chapter 16: Appendix. Index

Author

R.L. Yadava

Dr. R.L. YADAVA, is Professor in the department of ECE, Galgotias College of Engg. and Technology, Gr. Noida, UP During his doctoral work he was associated with R&D project funded by DST, Govt. of India. After receiving Ph.D. degree, he joined VIT University, Vellore T.N, in 2001 and served as Head of Microwave Division, Coordinator R&D and Coordinator (UG) of Electrical Sciences. During his service at VIT, he was deputed as visiting faculty to KIGALI UNIVERSITY, KIGALI Center Africa. He has been coordinator of M. Tech program of U.P. Technical University, 2007-08. He has organized several guest lectures, short-term training program, FDPs and conferences in the field of microwaves and Antennas. His research areas includes: Waveguides, Microwaves and Microstrip Antennas. He has guided several M. Tech dissertations and 05 Ph.Ds. He has 120 publication in International/ National Journals, Conferences and Symposiums. He is Member of ISTE, SEMCE (I) and IEEE.



Khanna Publishing House



Bulk Chemicals from	
Petroleum	

Author :	B.K. Bhaskarao
ISBN 13 :	978-93-86173-99-7
ISBN 10 :	93-86173-99-9
E-ISBN 13:	978-93-86173-99-7
Edition :	First
Pages :	416
Type of book :	Paperback
Weight (g) :	700.00
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P:	Rs 450.00
Categories :	Chemical Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book covers petrochemical industry feedstocks, chemicals derived from C1, C2, C3, C4 & higher hydrocarbon atoms, synthesis gas & chemicals and petroleum aromatics. Besides, it contains comprehensive information pertaining to polymers which include plastics, synthetic fibers & elastomers and synthetic detergents. This book will serve as as reference material for the student, teachers and practicing engineers in th field of chemical, petroleum and petrochemical engineering.



Khanna Publishing House

Chapter 1: Petrochemical Industry-Feedstocks. Chapter 2: Chemicals from Methane. Chapter 3: Chemicals from Ethane-Ethylene-Acetylene. Chapter 4: Chemical from C3,C4 and Higher Carbon Atoms. Chapter 5: Synthesis Gas and Chemicals. Chapter 6: Polymers of Olefin. Chapter 7: Petroleum Aromatics. Chapter 8: Synthetic Fibers.
Chapter 9: Synthetic Rubber. Chapter 10: Plastics. Chapter 11: Synthetic Detergents. Chapter 12: Petroleum Coke and Carbon Black. Chapter 13: Pollution and Toxicity.

Author

B.K. Bhaskarao



Khanna Publishing House



Civil Engineering Construction Materials

Author :	S.K. Sharma
ISBN 13 :	978-93-82609-84-1
ISBN 10 :	93-82609-84-9
E-ISBN 13 :	978-93-82609-84-1
Edition :	First
Pages :	416
Type of book :	Paperback
Weight (g) :	600.00
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P:	Rs 425.00
Categories :	<u>Civil Engineering</u> , <u>Civil</u> Engineering
Condition Type :	New
Country Origin :	India

Product Description

The main objective kept in mind in writing this book is to familiarize the readers with various types of construction materials their manufacture or production, classification, important physical and chemical properties, their uses advantages, disadvantages, testing etc. The book has been written in a very simple and lucid language, illustrated with neatly drawn diagrams and problems The book is designed keeping in mind syllabus of various universities, AIME, The book will prove equally useful to the practicing engineers.



Khanna Publishing House

Chapter 1: Stones.
Chapter 2: Bricks, Tiles and other Clay Products.
Chapter 3: Lime.
Chapter 4: Cement.
Chapter 5: Aggregates (Fine and Coarse).
Chapter 6: Mortars.
Chapter 7: Concrete.
Chapter 7: Concrete.
Chapter 8: Timber and Allied Products.
Chapter 9: Ferrous Metals and Alloys.
Chapter 10: Non-Ferrous Metals and Alloys.
Chapter 11: Plastics in Buildings.
Chapter 12: Paints, Varnishes and Protection of Metal.
Chapter 13: Glass.
Chapter 14: Bituminous Materials.
Chapter 15: Miscellaneous Materials.

Author

Dr. S. K. Sharma has a brilliant academic record in the faculty of Civil Engineering. He graduated from IIT Kharagpur obtaining B. Tech. (Hons.) in Civil Engineering. He did his M.Sc. (Engineering) with distinction from Punjab University and completed his Ph.D. work in record time. He joined Punjab Engineering College and has a teaching experience of more than thirty years. He was deputed by Government of India on foreign assignments for five years. He has published a large number of research papers both national as well as International level.



Khanna Publishing House