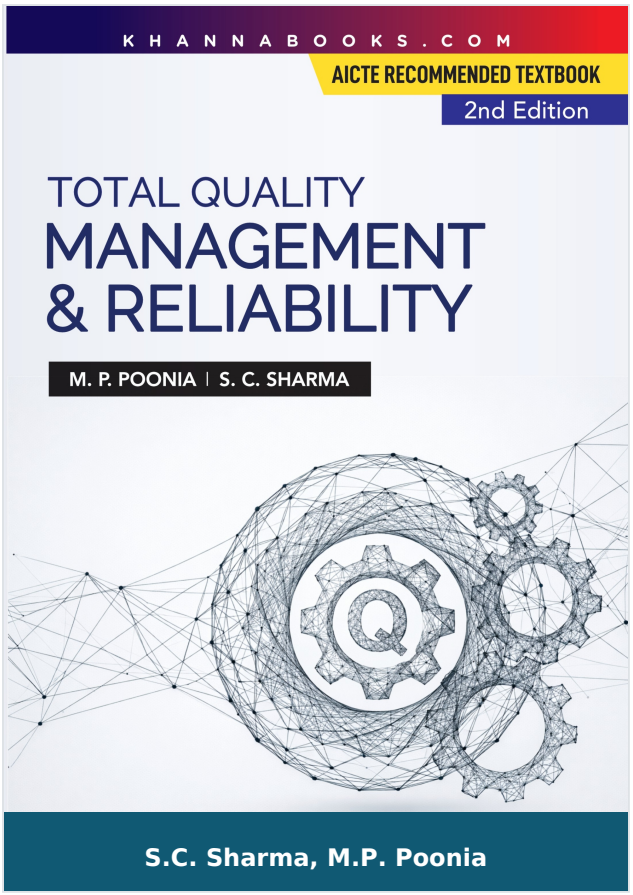

Total Quality Management and Reliability

Author :	S.C. Sharma, M.P. Poonia
ISBN 13 :	978-93-91505-22-6
ISBN 10 :	9391505228
E-ISBN 13 :	978-93-91505-22-6
Edition :	2
Pages :	456
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 525.00
Categories :	Civil Engineering, New Arrivals, UNIVERSITY RECOMMENDED, Civil Engineering, Book Store
Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

Total Quality Management is an integrated approach in satisfying customer needs in totally on a continuous basis, through involvement of each and every employee in the organization, making continuous improvement on one side and an appropriate cost-effective technology on the other side. It is management philosophy for professional excellence that too through customer orientation. With the rapid advancement in technology and awareness, the users (Customers) have become highly quality conscious and demands quality, reliability and safety in product and service. In view of this, industries need to upgrade their quality continuously. Product and service quality requires managerial, technological and statistical concepts which are the major functions of an organization. The concepts like strategic management, competitive bench marking, self-managing teams, getting it right first time, zero defects, employee empowerment are important as they move towards Total Quality Management (TQM)in simple and easy to understand language. The book is divided in to parts, part-I cover the principles and practices of TQM, while part-II covers the tools and technology of TQM.

The book covers the syllabi of various universities and therefore, should serve the needs of students of business administration and those of engineering, technology, and related disciplines. The professionals too will find this book to be a valuable reference in the field.

INSIDE THE BOOK

PART-1: PRINCIPLES AND PRACTICES

· Quality Concepts

·Total Quality management Concepts (TQM Concept)

·Quality Planning

·Organizing (Leadership) for Quality

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·Continuous Process Improvement

·Customer Satisfaction

·Supplier Partnership

·Performance Measures

·Quality Gurus(Pioneers) of Total Quality Philosophy

PART 2: TOOLS AND TECHNIQUES

·TQM Tools and Techniques-1

·TQM Tools and Techniques-2

·Fundamentals of Statistics

·Acceptance Sampling and O. C. Curves

·Statistical Process Control and Control Charts

·Process Capabilities

·Reliability Quality Management System

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- Quality Management System

Author

S.C. Sharma

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S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

M.P. Poonia

Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata. Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.

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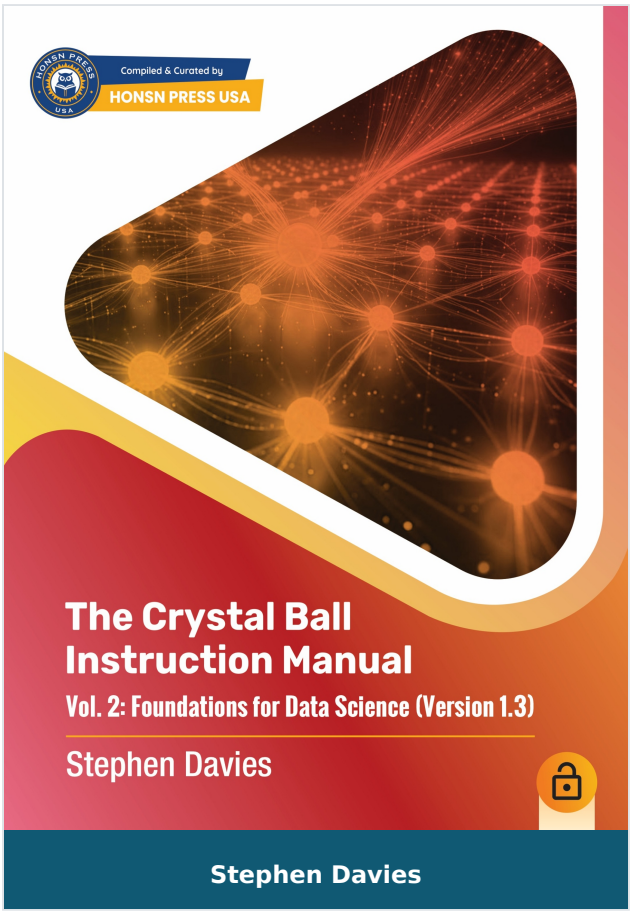

The Crystal Ball Instruction Manual (Vol.2: Foundations for Data Science, Verson 1.3) (HONSN PRESS USA)

Author :	Stephen Davies
ISBN 13 :	978-93-77082-36-9
ISBN 10 :	9377082366
E-ISBN 13 :	978-93-77082-36-9
Edition :	First
Pages :	322
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 680.00
Categories :	New Arrivals, Emerging Technologies, Book Store, Licensed Books
Condition Type :	New
Country Origin :	India

Product Description

The Crystal Ball Instruction Manual, Volume Two: Foundations for Data Science, is the essential next step for learners ready to move beyond introductory concepts and establish mastery in the field. Designed for intermediate students, aspiring professionals, and researchers who have a working knowledge of foundational Python programming, this volume solidifies the core knowledge and practical skills necessary to build a robust data science skill set. It assumes a base level of competency, offering a swift review of essential concepts like statistical significance, exploratory data analysis (EDA) fundamentals, and classification/regression principles.

The book's core theme is hands-on implementation, leveraging the Python ecosystem—including the Spyder IDE, NumPy, and Pandas—to tackle real-world data challenges. Its practical value is delivered through in-depth coverage of crucial data acquisition and wrangling techniques, such as parsing complex JSON and HTML using screen scraping, accessing databases, and data fusion to integrate multiple sources. It extends EDA with advanced visualization methods like heat maps and box plots, while simultaneously providing a solid grounding in machine learning principles like Naïve Bayes and kNN classification, along with essential pre-modeling steps like feature selection and association analysis.

Salient Features

• Foundational Data Principles: Reviews and solidifies core concepts like statistical significance, the crucial distinction between association and causality, and fundamental machine learning terminology.

• Advanced Data Exploration: Extends Exploratory Data Analysis (EDA) skills with detailed instruction on Kernel Density Estimates (KDEs), various distribution plots, and bivariate categorical analysis.

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• Real-World Data Acquisition: Provides practical techniques for collecting and structuring disparate data, including parsing complex JSON files, performing screen scraping (HTML), and directly accessing databases (SQLite).

• Effective Data Wrangling: Focuses on combining and restructuring data using techniques like data fusion, merging tables, and transforming datasets between long, wide, and the modern "tidy" form.

• Practical ML Algorithms: Delivers hands-on instruction for fundamental classification algorithms, including thorough multipart coverage of the Naïve Bayes classifier and the k-Nearest Neighbors (kNN) method.

• Statistical Modeling Insights: Covers probabilistic reasoning, the concepts of the prior and posterior, and the practical application of the LOWESS non-parametric local regression smoothing algorithm.

• Essential Pre-Modeling Techniques: Dedicated chapters explore critical preparatory steps such as feature selection to improve model performance and association analysis (like market basket analysis).

• Integrated Python Environment: Instructions are explicitly integrated with the Spyder IDE within the Anaconda distribution, ensuring seamless, hands-on application using industry-standard Python libraries.

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- Naive Bayes (1 of 3)
- Naive Bayes (2 of 3)
- Naive Bayes (3 of 3)
- APIs
- kNN (1 of 2)

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- kNN (2 of 2)
- Two key ML Principles
- Feature Selection
- Association Analysis
- "Special" Data types

Author

Stephen Davies

Stephen Davies

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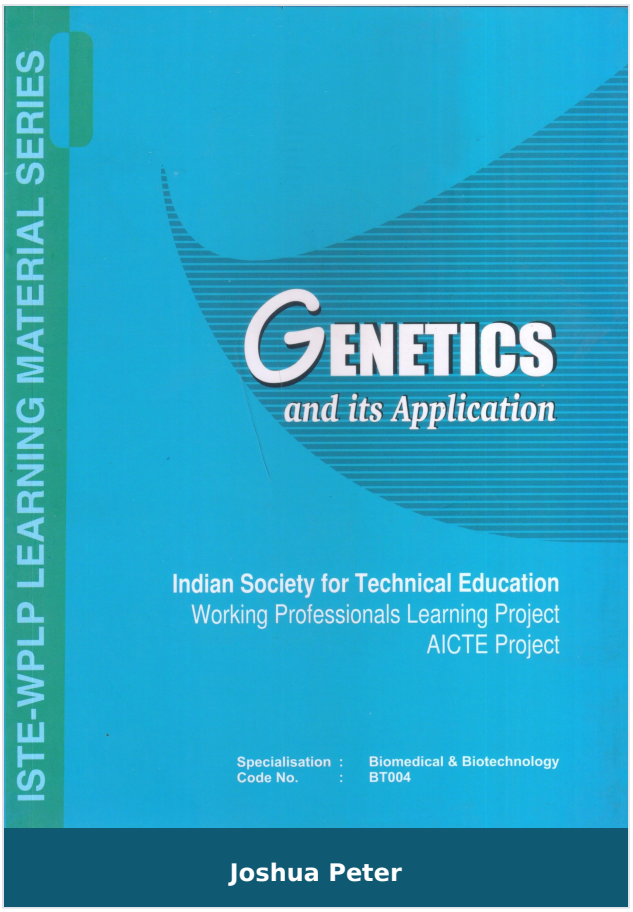

Genetics and Its Application

Author :	Joshua Peter
ISBN 13 :	978-93-55387-95-0
ISBN 10 :	9355387954
E-ISBN 13 :	978-93-55387-95-0
Edition :	1
Pages :	444
Type of book :	Physical
Year :	2018
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 549.00
Categories :	Book Store, ISTE Series, BIOMEDICAL & BIOTECHNOLOGY
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

The objective of this book is to provide knowledge on basics of Genetics and its application in livestock enhancement, agriculture and human health and also to know ethical aspects involved in application of genetics. Emphasis is laid on information related to various aspects of Medical Genetics for medical students, clinicians, nurses, allied professional and policy makers.

The author has covered all aspects of Genetics which can be understood by lay person because it is written in easy and simple language.

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- Genetic Testing
- Cytogenetics
- Advanced Genetic Engineering
- Inheritance of Genetic Disorders
- Chromosomal Disorders
- Genetic and Epigenetics of Human Diseases
- Genetics of Cancer
- Transgenic Plants
- genetic Engineering of Micro-Organisms of Interest to Agriculture
- Transgenic Animals
- Ecology of GM Crops- Environmental Effects
- Ethical Issues in Genetic Engineering and Transgenics
- The regulation of genetically Modified Organisms (GMOs) In India

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- Crucial Cytogenetic Landmarks: Historical, Current and Upcoming

Author

Joshua Peter

Joshua Peter

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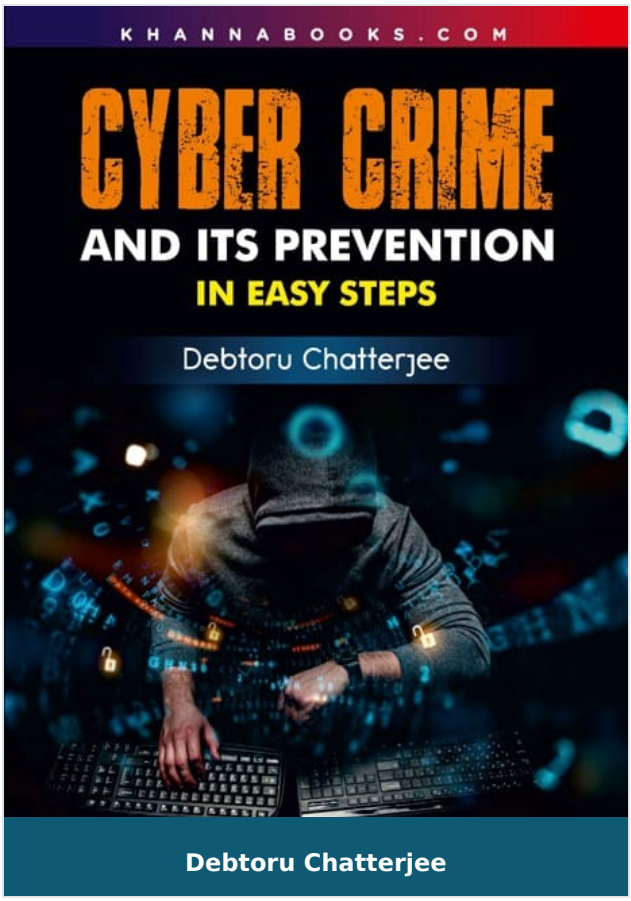

Debtoru Chatterjee

Cyber Crime and its Prevention in Easy Steps

Author :	Debtoru Chatterjee
ISBN 13 :	978-93-55380-74-6
ISBN 10 :	9355380747
E-ISBN 13 :	978-93-55380-74-6
Edition :	First
Pages :	240
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 335.00
Categories :	Emerging Technologies, Book Store, Best Sellers
Condition Type :	New
Country Origin :	India

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

Product Description

This book has been divided into two parts. The learning outcomes from each are as follows:

PART -1

The reader will gain awareness of how fraudsters:

- acquire one-time passwords via social engineering to commit OTP- based crimes. - exploit vulnerabilities to create false ATMs. - take advantage of poor over-sight mechanisms to remain undetected. - exploit air gaps to manipulate data in transit for fraud. - mislink accounts in a cross-institutional content to syphon off funds. - launder stolen proceeds. - take advantage of default configurations to gain unauthorized network privileges and how to devise counter-measures to deter such frauds.

PART -2

The Reader will gain awareness of how:

- hackers break into android smartphones to steal OTP and other confidential information - encrypted information to and from your smartphone or computer can be intercepted - the computer can be hacked with or without social-engineering - websites are scanned for vulnerabilities and exploited - enemy computers are targeted in cyber wars - Security Operations Centers function and tactical and policy measures to counter such threats.

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- Enforcing
- Accountability at choke-points
- Electronic Money
- Laundering
- Hardening
- Default Configurations
- Fraud
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- Man
- in the middle attacks on Banking Devices

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- Attack
- on Android Customer Phones
- Hacking
- Windows 10 Personal Computers
- The
- Anatomy of Cyber War
- Inside
- a Security Operations Centre
- Towards
- a National Cyber Security Policy
- Appendix-1
- Appendix-2

Author

Debtoru Chatterjee

Debtoru Chatterjee, an Indian Postal Service Officer (1994 batch), has served 11 years in a central police organization, including as an Inspector General, besides a five-year stint as an army Colonel. An honor graduate from Presidency College Calcutta, he holds and M.Sc. (Distinction) in Cyber Forensics and Information Security from the University of Madras; an MBA (IT Systems) (Distinction) from ICFAI; and a Master in Business Laws from National Law School, Bangalore. A keen student of Kali Linux and Python, he has also authored a companion book "Cyber-Crime and its Prevention in Easy Steps".

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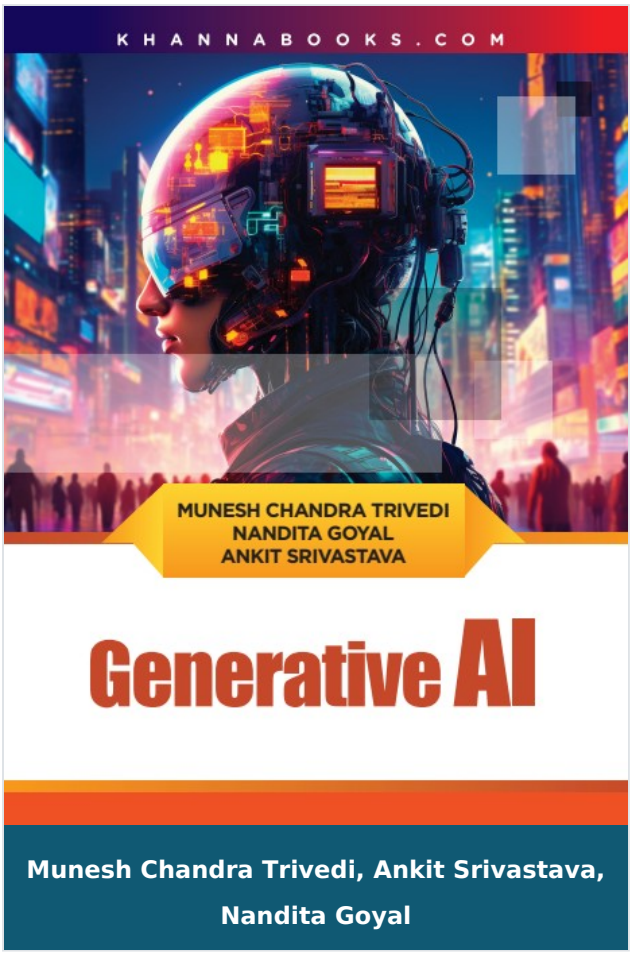

Generative AI

Author :	Munesh Chandra Trivedi, Ankit Srivastava, Nandita Goyal
ISBN 13 :	978-93-55386-39-7
ISBN 10 :	9355386397
E-ISBN 13 :	978-93-55386-39-7
Edition :	1
Pages :	312
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 448.00
Categories :	Computer Science Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Generative AI: foundations, models, and Applications are a comprehensive guide that explores one of the most transformative areas of artificial intelligence—machines that create. This book offers an in-depth, yet accessible journey through the theoretical principles, algorithmic frameworks, and practical implementations that underpin generative models. Designed for students, researchers, and industry professionals alike, it bridges the gap between foundational understanding and real-world application.

The book begins with a concise introduction to machine learning and deep learning, establishing the mathematical and conceptual foundation required to understand generative models. It the systematically introduces key architectures such as variation autoencoders (VAEs), Generative adversarial Networks (GANs), autoregressive models, diffusion models, and large-scale transformer-based systems such as GPT and DALL-E.

Special attention is given to transformer architectures and multimodal generative models, which are reshaping fields such natural language processing, computer vision, digital art, and scientific discovery. Practical code examples and implementation guidance are provided using popular frameworks, empowering readers to build and experiment with their own models.

This book also examines the broader impact of generative AI--- from ethical considerations and safety challenges to the societal implications of machine- generated content. It encourages critical thinking about issues like deep fakes, misinformation, algorithmic bias, and intellectual property in the age of AI-Generated media.

Whether you are a student preparing for a career in AI, a software developer exploring new tools, or a researcher seeking a deeper understanding of generative technologies, this book serves as both a foundational text and a forward-looking reference. It combines clarity, depth, and practical relevance to help you master the art and science of

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Generative AI.

SALIENT FEATURES OF THE BOOK

- The language is simple and easily understandable.
- Includes hands-on approach for learning the subject.
- Explores a wide spectrum of generative architectures including variational autoencoders (VAEs), Generative adversarial Networks (GANs), Transformer-based models (e.g., GPT), Diffusion models, and multimodal systems.
- Provides mathematical details without losing the reader in complexity.
- Includes exercises and examples.
- Includes in-depth discussions on cutting-edge advancements such as attention mechanisms, transformer architectures, large language models (LLMs), prompt engineering, and fine-tuning techniques.
- Prepares readers not just to use today’s tools, but to adapt to tomorrow’s innovations---offering insights into emerging trends such as foundation models, generative agents, and open-ended creativity in AI.
- An application-centric view is highlighted to provide an understanding of the practical uses of each class of techniques.
- Greater focus is placed on modern deep learning ideas such as attention mechanisms, transformers, and pre-trained language models.

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- Applications of Generative AI
- Generative AI For Business and Society
- Ethics and Challenges in Generative AI
- Technical Deep Dive
- Future of g
- Generative AI
- Case Study
- References

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

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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.

Ankit Srivastava

Mr. Ankit Srivastava is a dedicated academic and researcher with over six years of teaching experience in various engineering colleges and the National Institute of Electronics and Information Technology (NIT), Agartala, Tripura, India. His research primarily focuses on medical imaging and image processing, with an emphasis on leveraging artificial intelligence to contribute to technological advancements in healthcare. Mr. Srivastava has published six research papers in reputed SCI-E and Scopus-Indexed Journal, as well as in several national and international conferences. He also holds three national patents and is the author of a book titled “Introduction to AI and Machine Learning.” His academic journey reflects a strong commitment to innovation, Knowledge dissemination, and research excellence in the field of artificial intelligence and its application in medical science.

Nandita Goyal

Dr. Nandita Goyal has more than 17 years’ experience in Teaching and Research. Her areas of interest are Cloud Computing, Deep learning and Neural Networks. She has published many research papers in different reputed International Journals and

Conferences.

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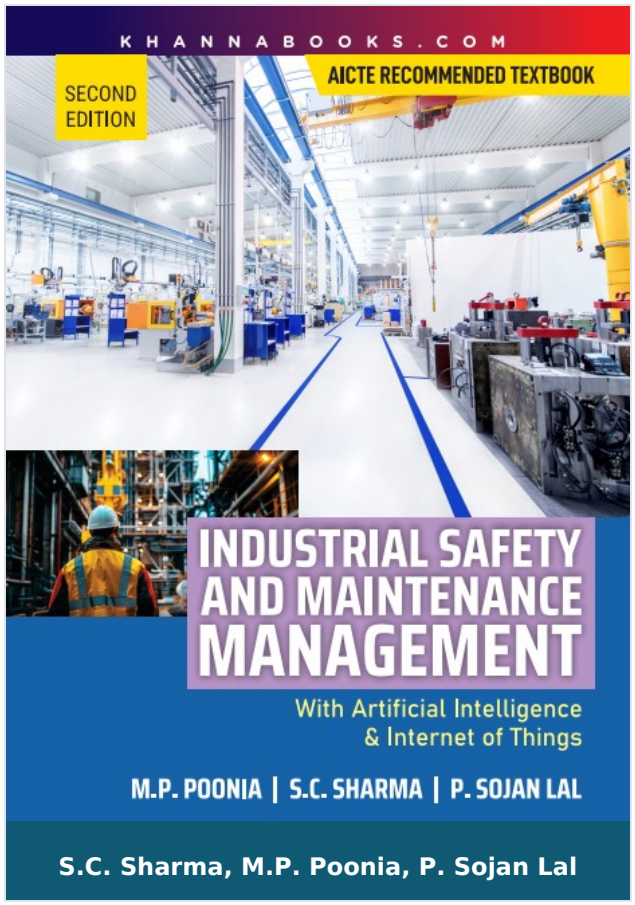

Industrial Safety and Maintenance Management (With Artificial Intelligence & Internet of Things)

Author :	S.C. Sharma, M.P. Poonia, P. Sojan Lal
ISBN 13 :	978-93-55389-48-0
ISBN 10 :	9355389485
E-ISBN 13 :	978-93-55389-48-0
Edition :	Second
Pages :	452
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 550.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

In the age of industrialization having main focus on increased production, higher productivity, stringent quality, minimizing cost etc., it has become essential to have more knowledge on industrial safety and various hazards with their remedial measures. Maintenance aspects are also gaining importance, as they have substantial impact on production, productivity, workers safety and their health and working environment. Neglect of safety in an industry at any stage. from concept to design, erection, commissioning, operation and maintenance of plant and machinery may lead to loss of life, production and money. It is hoped that this book will be very useful for the engineering student and professionals. The book covers the AICTE model curriculum and the syllabi of various other Indian university on the subject.

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- Electrical Safety
- Common Hazards in Construction Industry
- Hazards in Industry and Safe Working Practice
- Safety in Materials Handling and Storage
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- Occupation Health and Safety Management System
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- PART - 2: MAINTENANCE MANAGEMENT
- Introduction to Maintenance
- Maintenance Strategies/Types
- Reliability Engineering

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- Maintenance, Availability and Failure Analysis
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- Maintenance and Repairs of Defects/Failures
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Author

S.C. Sharma

S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

M.P. Poonia

Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata. Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.

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P. Sojan Lal was awarded PH. D. from Cochin University of Science and technology, kerala, India. He is Professor, department of computer science and engineering, MBITS, kerala, India and Research supervisor for PH. D. programs of University of petroleum & Energy Studies, Dehardun, India as well as school of computer science, Mahatma Gandhi University, kerala, India. He has 29 Years of academic and industrial experience with 60 publications inclusive of two technical books. His joint publications are recorded with world records India (2014) for most number of papers in several international technical journals within short duration. He has also obtained MBA from starthclyde Business School, Scotland, UK and is a fellow of the Institution of engineers (FIE-India). He was the district Operationg Board member for ASME, Middle east and Africa region. He is a member of ISTE, ASME, IEEE, CSI and engineering Council (UK). He is listed in marquis who's who in the world since 2009 as the biographical reference representing the world's most accomplished individuals.

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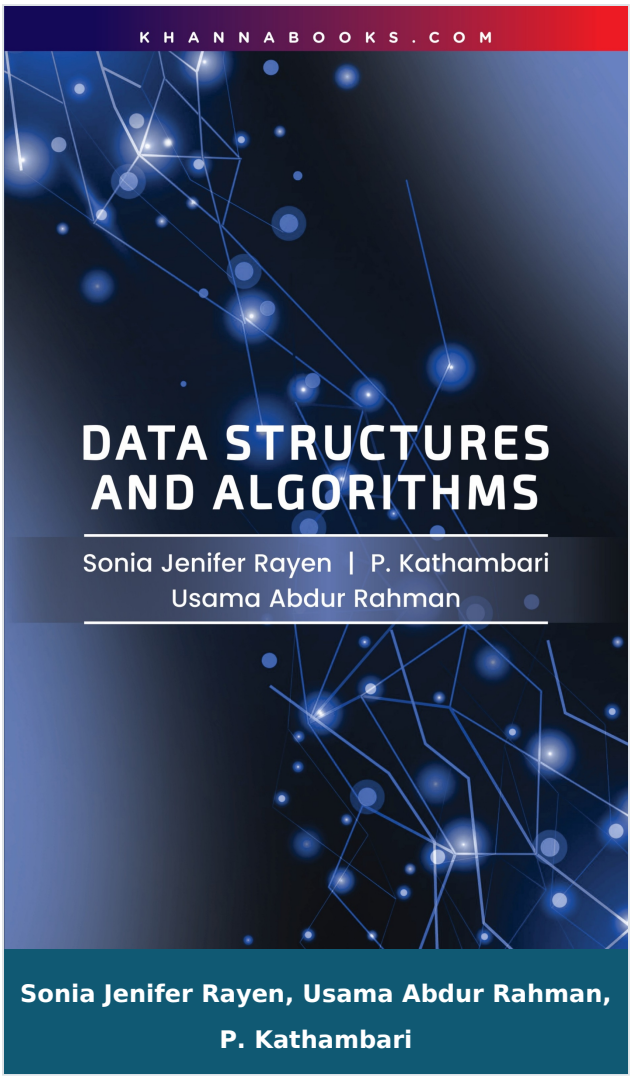

Data Structures and Algorithm

Author :	Sonia Jenifer Rayen, Usama Abdur Rahman, P. Kathambari
ISBN 13 :	978-93-55384-75-1
ISBN 10 :	9355384750
E-ISBN 13 :	978-93-55384-75-1
Edition :	First
Pages :	188
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

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Product Description

In the rapidly evolving landscape of computer science and technology, a foundational mastery of data structures and algorithms is paramount for efficient problem-solving and system design. This essential textbook is specifically designed to offer Computer Science, Information Technology, and allied students, along with educators and aspiring programmers, a broad and easy-to-understand exposition of these key principles.

The book's core purpose is to build a strong, clear, and practical understanding of fundamental concepts, integrating theoretical principles with applied implementation so readers can not only grasp the inherent logic but also implement solutions in real-world computing environments. The text systematically covers traditional structures like Arrays, Linked Lists, Stacks, and Queues, alongside complex non-linear structures such as Trees and Graphs. It then advances to essential algorithm design techniques, including Divide and Conquer, Greedy Algorithms, and Dynamic Programming, and comprehensively covers Searching and Sorting methods.

A key highlight is the dedicated focus on Algorithm Analysis, thoroughly explaining concepts like Time and Space Complexity and Big O notation to ensure readers can develop efficient, optimized solutions. Maintaining an academic yet friendly tone, the book ensures clarity by breaking down complex concepts, supplemented with numerous diagrams, real-life examples, and code snippets, primarily using Python for readability. This text is an indispensable guide for establishing the analytical and coding skills necessary for academic and professional success.

Salient Features:

• Foundational DS: Systematically covers primitive and non-primitive structures like arrays, linked lists, stacks, queues, trees, and graphs, forming the core of computing.

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• Performance Analysis: Explains the crucial concepts of Big O notation, time, and space complexity analysis, enabling the design of optimized and efficient coding solutions.

• Advanced Techniques: Details advanced algorithm design paradigms, including Divide and Conquer, the Greedy approach, Dynamic Programming, and Backtracking for complex problem-solving.

• Practical Coding: Adopts a hands-on approach with numerous code snippets, examples, and diagrams, utilizing Python for clear, readable implementation of concepts.

• Search & Sort Mastery: Provides clear, step-by-step coverage of fundamental operations like linear search, binary search, and various efficient sorting methods (Quick, Merge, Heap).

• Applied Solutions: Explores real-world applications of data structures, such as polynomial manipulation via lists and shortest path problems using Dijkstra's algorithm.

• Conceptual Clarity: Establishes a strong basis by thoroughly defining and differentiating between data, information, and Abstract Data Types (ADT) before implementation.

• Student Focused: Includes chapter-end exercises and problems to reinforce learning, making it an ideal, syllabus-aligned guide for academic and professional preparation.

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Author

Sonia Jenifer Rayen

Sonia Jenifer Rayen, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

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Usama Abdur Rahman

P. Kathambari

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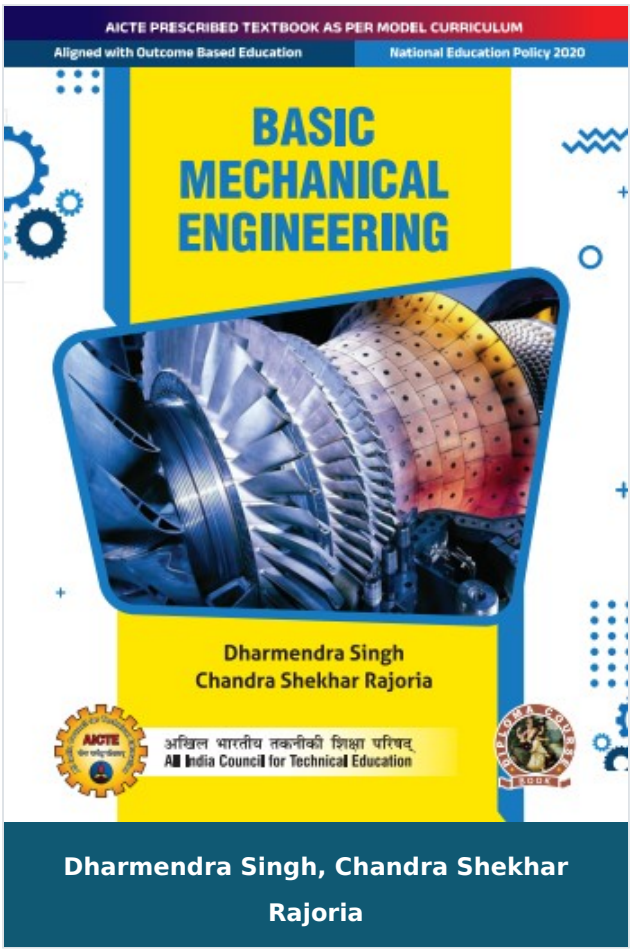

Basic Mechanical Engineering

Author :	Dharmendra Singh, Chandra Shekhar Rajoria
ISBN 13 :	978-93-55387-53-0
ISBN 10 :	9355387539
E-ISBN 13 :	978-93-55387-53-0
Edition :	First
Pages :	280
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 528.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Basic Mechanical Engineering

This book familiarizes the students with different domains of Mechanical Engineering. It provides an exposure of basic science to the engineering students, the fundamentals of Mechanical Engineering systems as well as enables them to get and insight of the subject. The book covers the basic thermodynamic principles including heat transfer, thermal power plant systems, steam turbines, condensers, cooking towers, internal combustion engines and refrigeration. It also covers the basics of material science, manufacturing process, machine tools and their mechanisms with their application in engineering problems. The main content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per the 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.

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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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- Materials and Manufacturing Processes
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Author

Dharmendra Singh

Dr. Dharmendra Singh Assistant Professor, Department of Mechanical Engineering, Govt. Engineering College Bikaner, Rajasthan, India Dr.

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Chandra Shekhar Rajoria

Dr. Chandra Shekhar Rajoria Assistant Professor, Department of Mechanical Engineering, Govt. Engineering College, Bikaner, Rajasthan, India

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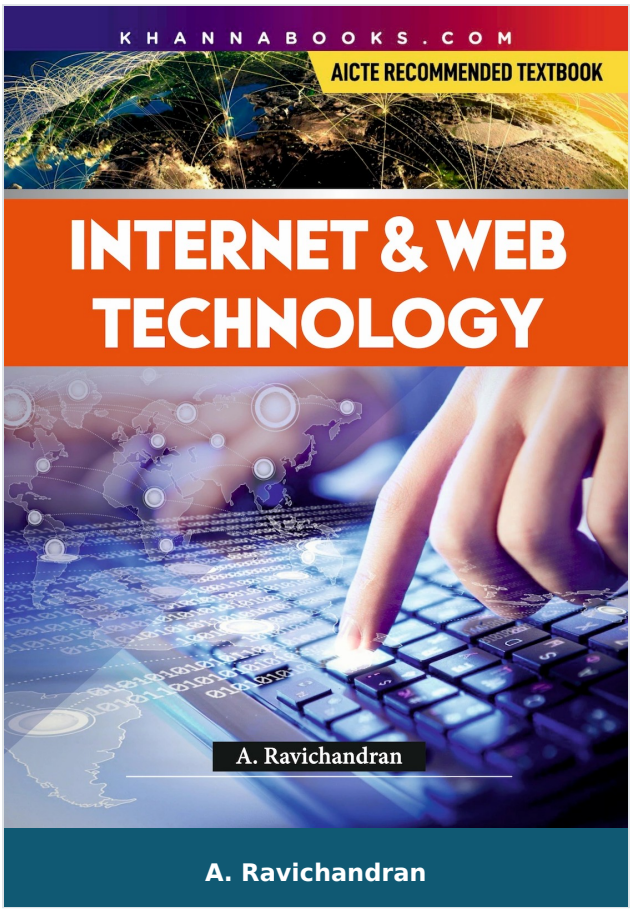

Internet and Web Technology

Author :	A. Ravichandran
ISBN 13 :	978-93-80016-26-9
ISBN 10 :	9380016263
E-ISBN 13 :	978-93-80016-26-9
Edition :	First
Pages :	448
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 650.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book covers all the important aspects of the Web and the Internet, their growth, usage and abilities. Each topic has various practical examples with both text and their outputs. Most of the current topics like JavaBeans, Java Servlets, Java Enterprises, JDBC, etc., are covered in the best possible manner. Each Chapter is interlaced with screenshots wherever needed. At the end of every chapter, you would find Revision, Multiple Choice Questions and Subjective Questions. These would enable you to get a better grasp over the subject.

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- JDBC (Java Database Connectivity)
- Common Gateway Information (CGI), Practical Extraction and Review Language (PERL)
- RMI, VBScript & COM/DOM
- Active Server Pages (ASP)
- Index

Author

A. Ravichandran

A. Ravichandran He has obtained M.Tech degree in Computer Science & Engineering from IIT. Delhi and Ph.D degree in Computer Science and Engineering from IIT Kanpur. He has been in teaching field since 1983 and now currently guiding: research work on Image processing, Computer vision and Computer Graphics. He has also published 22 technical/research papers in National and International. He is an Sun certified programmer as well as Sun certified trainer by Sun Microsystems.

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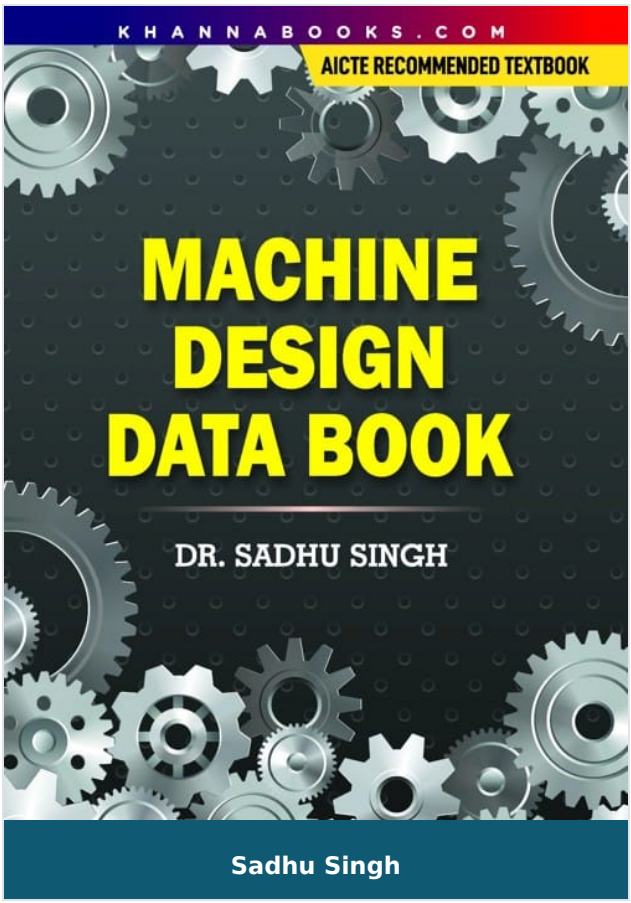

Machine Design Data Book

Author :	Sadhu Singh
ISBN 13 :	978-93-82609-51-3
ISBN 10 :	9382609512
E-ISBN 13 :	978-93-82609-51-3
Edition :	Revised
Pages :	320
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 360.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store, Best Sellers
Condition Type :	New
Country Origin :	India

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Product Description

The book shall be useful to the students and teacher of all Indian Universities and Institutions in the branches of mechanical Engineering, Production Engineering, Aeronautical Engineering, Agricultural Engineering, Chemical Engineering and other allied branches.

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- Mechanical Springs
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- Clutches and Brakes
- Internal Combustion Engine Parts

Author

Sadhu Singh

Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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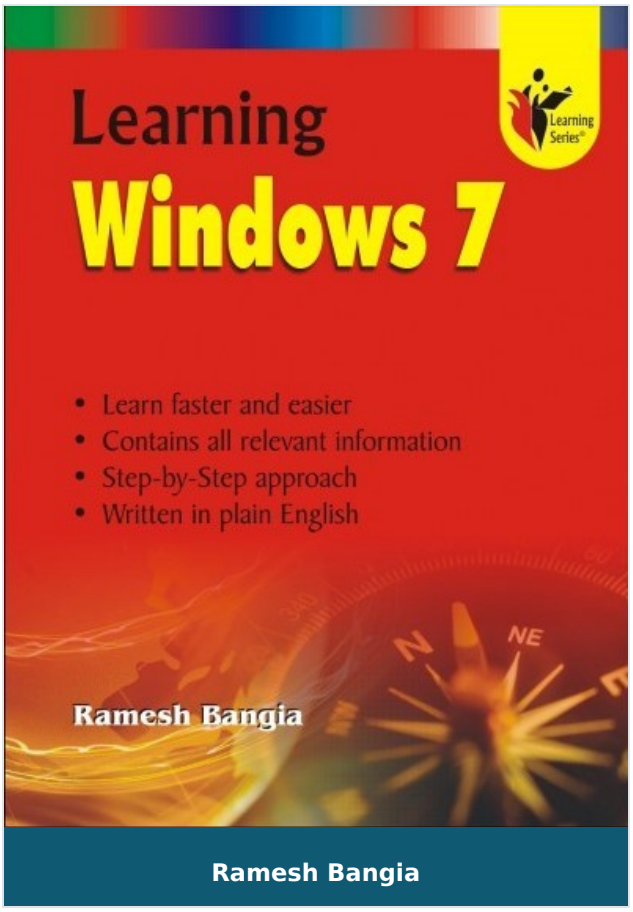

Learning Windows 7

Author :	Ramesh Bangia
ISBN 13 :	978-93-80016-59-7
ISBN 10 :	938001659X
E-ISBN 13 :	978-93-80016-59-7
Edition :	1
Pages :	188
Type of book :	Physical
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 225.00
Categories :	Book Store, Learning Series
Condition Type :	New
Country Origin :	India

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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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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- Configure and Maintain Your System
- Additional Commands of Windows 7
- Keyboard Shortcuts of Windows 7
- Questions

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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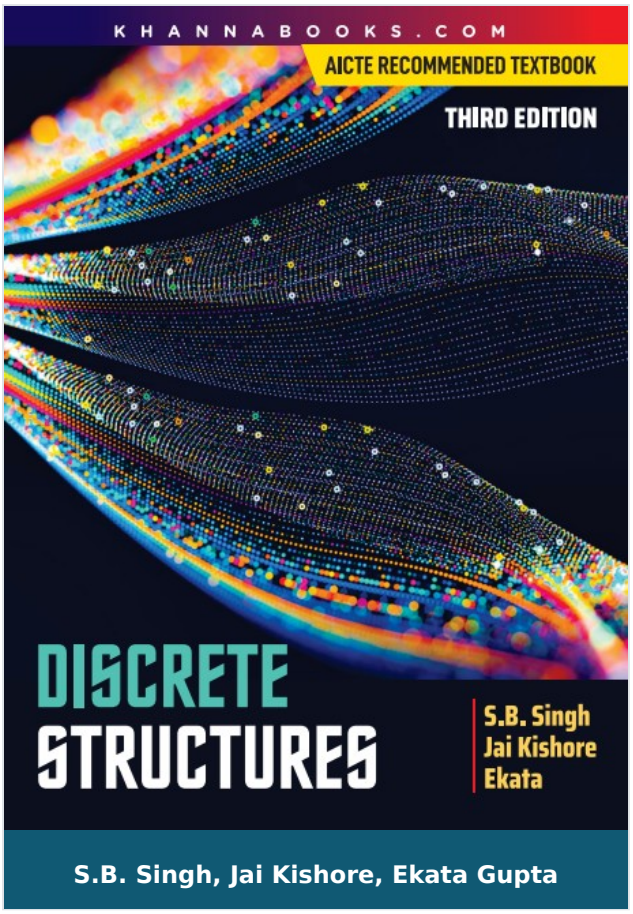

Discrete Structures

Author :	S.B. Singh, Jai Kishore, Ekata Gupta
ISBN 13 :	978-93-82609-40-7
ISBN 10 :	9382609407
E-ISBN 13 :	978-93-82609-40-7
Edition :	3
Pages :	680
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 745.00
Categories :	UNIVERSITY RECOMMENDED, APPPLIED SCIENCES & HUMANITIES, Book Store, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
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Extremely well organized and lucidly written book with an approach to explain the concepts in communicable languages. Suitable text book for the students of BCA, B. Tech., M.C.A., M.Sc., M Tech., etc.

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- Automata
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Author

S.B. Singh

Dr. S.B. Singh is an Associate Professor in the Deptt. Of Mathematics Statistics and Computer Sc., G.B. Pant University of Agri. & Tech., Pantnagar. He has around thirteen years of teaching experience at different Engineering Colleges and University. He has authored and co-authored seven more books. he has been conferred with four national awards.

Jai Kishore

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Jai Kishore Dr. Jai Kishore is an Assistant professor in the Deptt. of Mathematics, Indraprustha Engg. College Ghaziabad. He has more than 8 Years of teaching experience in different Engg. colleges. He has authored and co-authored four more books.

Ekata Gupta

Ekata Gupta Dr. Ekata is an Assistant Professor at Deptt. of Mathematics, Krishna Institute of Engg. & Tech. Ghaziabad. She has more thanfifteen years of teching experience in different Engg. Colleges.

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