

Set of Two Books (Cyber Crime & Cyber Attacks)

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Product Description

Set of Two Books (Cyber Crime and Its Prevention in Easy Steps & Cyber Attacks and Counter-Measures Made Simple)

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Author

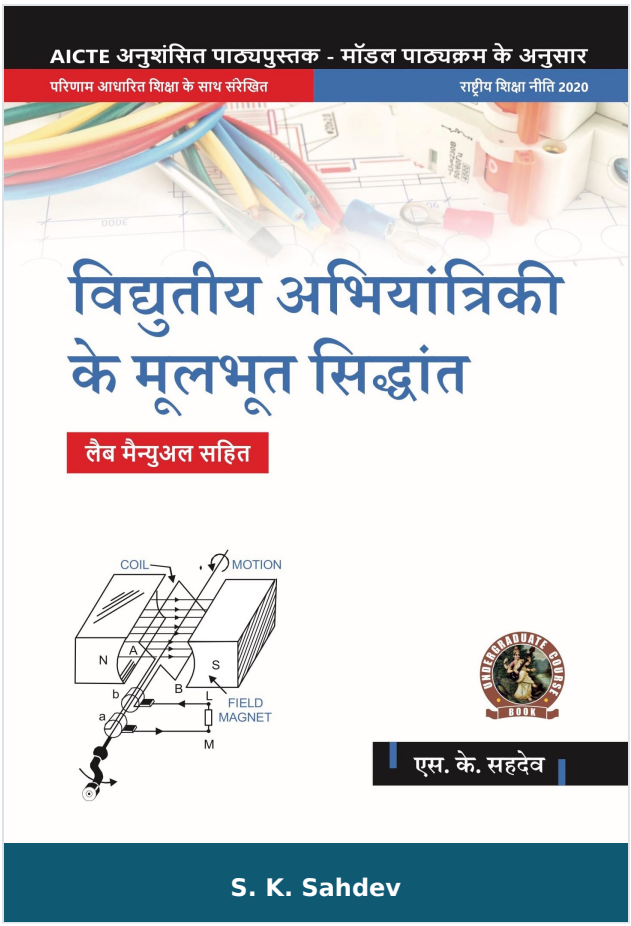
Debtoru Chatterjee

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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Basic Electrical Engineering (with Lab Manual)

Author :	S. K. Sahdev
ISBN 13 :	978-93-55381-15-6
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Edition :	First
Pages :	400
Type of book :	Physical
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Publisher :	Khanna Publishing House
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Condition Type :	New
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Product Description

This textbook “Basic Electrical Engineering” is based on the latest syllabus of the Universities AICTE and Educational Institutes. In this edition, some material of the book has been rewritten to make the presentation easily comprehensible. More illustrative examples mainly from IAS, IES and GATE and other competitive examinations have been added. Various problems with answers have been added to support the text. For quick revision, summary/ highlights are given at the end of each chapter.

Salient Features:

1. DC Circuits.
2. AC Circuits.
3. Transformers.
4. Electrical Machines.
5. Power Converters.
6. Electrical Installations.

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- Transformers
- Electrical Machines
- Power Converters
- Electrical Installations

Author

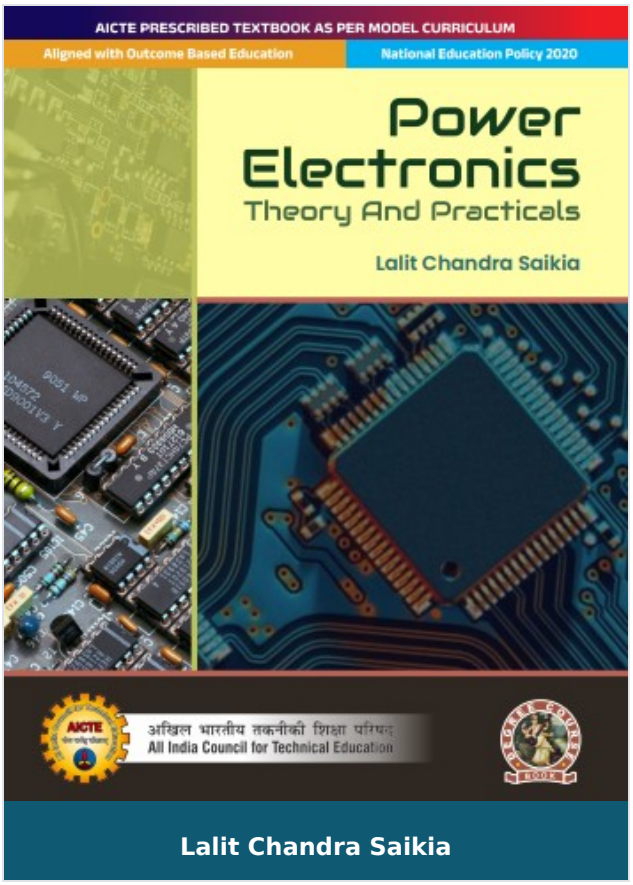
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S. K. Sahdev

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Power Electronics: Theory and Practicals

Author :	Lalit Chandra Saikia
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Product Description

Power Electronics: Theory and Practicals

This book serves as an essential resource for students and professionals in Electrical Engineering. Starting with the basics of semiconductor technology, the book gradually introduces the basics of power electronics covering construction, principle of operations, various characteristics of power transistors and thyristors, SCR turned-on and turned-off methods, and industrial control circuits using power electronics. All are grouped in separate units. The subject matters are presented constructively so that an electrical engineering degree prepares students to work in different sectors at the very forefront of technology. Laboratory experiments on the basics of power electronics as recommended by AICTE are included in the units.

Salient Features:

- Detailed alignment of content with Course Outcomes, Program Outcomes, and specific Unit Outcomes.
- The contents of each Unit are as per the syllabus of second-year undergraduate.
- The book is enriched with up-to-date information, important facts, and QR codes linking to valuable E-resources.
- A balance of student and teacher-centric materials, presented in an orderly chronological format.
- The book is enriched with numerous solved problems in every unit for proper understanding of the related topics.
- Laboratory experiments on the basics of power electronics are presented at the end of each Unit.
- Extensive use of figures and tables enhances understanding of the topics and the concept.

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- The ‘Know more’ section in each unit encourages exploration beyond the standard syllabus.
- A variety of exercises including short questions, objective-type questions, and numerical problems, are provided at the end of each chapter.

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- CO and PO attainment table
- Index

Author

Lalit Chandra Saikia

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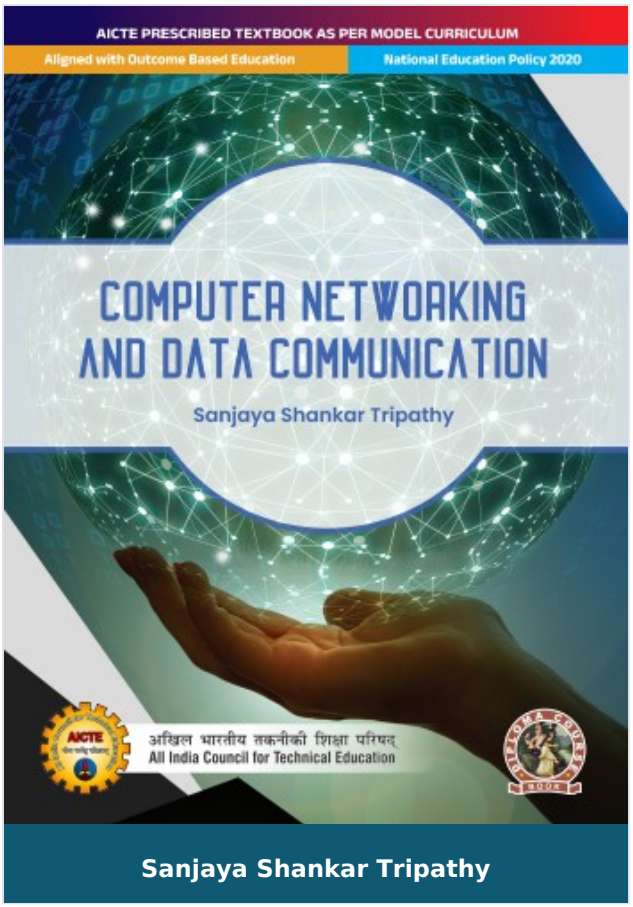
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Dr. Lalit Chandra Saikia Associate Professor National Institute of Technology Silchar, Assam Dr.

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Computer Networking and Data Communication

Author :	Sanjaya Shankar Tripathy
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Product Description

Computer Networking and Data Communication

This book serves as an essential resource for students and professionals in Data communication and computer networking. Starting with protocols, the book gradually introduces the fundamental concepts of data communications, digital and analog transmission technology. Flow control, error control, routing and transmission control are presented as per the TCP-IP protocol architecture. It also gives a brief introduction to wireless communication. The subject matters are presented with required diagrams and suitable examples. The main concept of outcome-based education as per National Education Policy (NEP) 2020.

Salient Features:

- Content of the book is aligned with Unit outcomes, Course Outcome and program Outcomes.
- A blend of student and teacher-centric materials, presented as per the bottom-up approach of TCP-IP protocol.
- The book is enriched with example-based discussion for proper understanding of the related topic.
- Extensive use of figures and tables enhance understanding of the topics and the concepts.
- QR codes are given in the know more section in each chapter to explore beyond the syllabus
- A variety of exercise including multiple choice questions, short, long questions and numerical problems are provided at the end of each chapter.
- References are provided at the end of each chapter.

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- Guidelines for Students
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- Digital & Analog Transmission
- Wireless Communication
- Data Link Layer Technologies
- Network Layer Technologies
- Transmission Media & Transmission Control Protocol
- References For Further Learning
- CO And PO Attainment Table
- Index

Author

Sanjaya Shankar Tripathy

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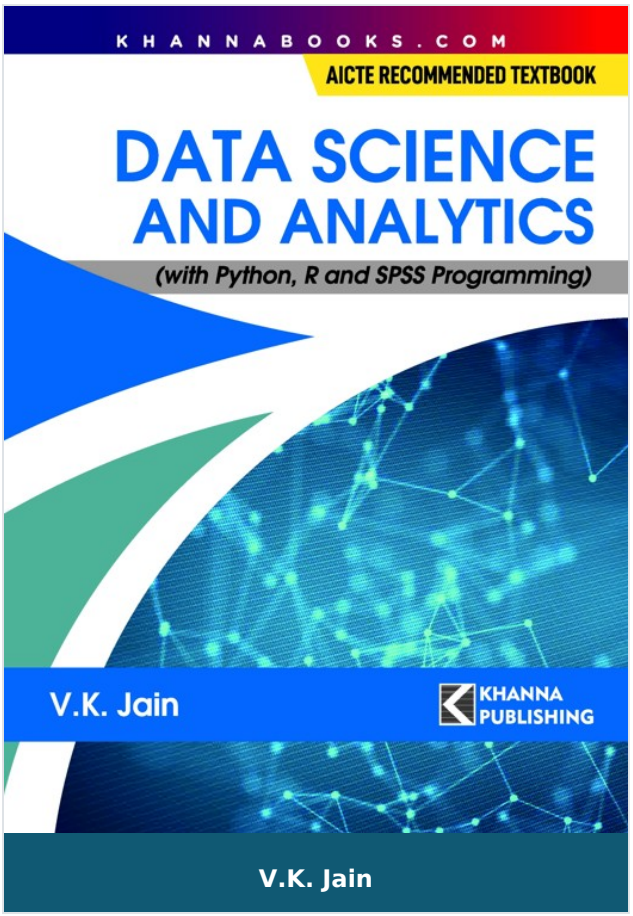
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Dr. Sanjaya Shankar Tripathy Assistant Professor Dept. of Electronics and Communication Engineering (ECE) Birla Institute of Technology Mesra, Ranchi

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Data Science and Analytics (with Python, R and SPSS Programming)

Author :	V.K. Jain
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Product Description

The overall goal of the book is to provide a broad understanding of big data, data science and analytics in an integrated manner.

While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

Computer science has the greatest drawback of non-standardization of the stuff, not only of its software but in courseware also. A vast amount of curriculum exists at different levels of various Universities. As such I have tried to include all desired courseware from the syllabi for different levels.

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- Unit-2: Data Management Using 1BM SPSS
- Unit-3: Data Analysis Using R Programming Language
- Unit-4: Data Visualisation
- Unit-5: Application of Data Science, Technology for Visualisation and Bokeh
- Unit-6: Recent Trends in Data Science
- Annexure-1: R Programming Language & Software Environment for Statistical Analysis and Graphics

Author

V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that

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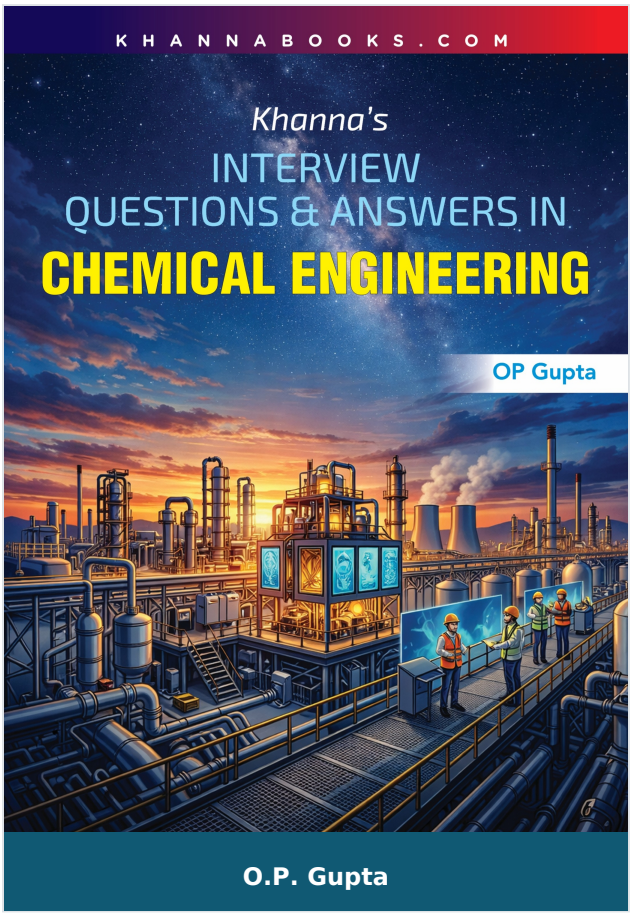
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time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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Khanna's Interview Questions & Answers in Chemical Engineering

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Product Description

Interview Questions and Answers in Chemical Engineering by O.P. Gupta is a comprehensive, meticulously structured resource designed to bridge the gap between academic learning and professional recruitment. This first-edition volume provides a deep dive into the core pillars of the field, covering essential topics such as Fluid Mechanics, Heat Transfer, Mass Transfer, and Instrumentation. By presenting technical concepts in a clear question-and-answer format, the book helps readers master complex theories while simultaneously preparing them for the practical rigors of the industry.

The book is tailored for a wide-ranging audience, including diploma, degree (B. Tech.), and postgraduate (M. Tech.) students, as well as PhD candidates defending their theses. It also serves as an indispensable guide for professionals preparing for associate membership examinations like AMIE and AMIIChE, and for those appearing for recruitment interviews at premier public and private sector organizations like BARC, SAIL, and IOC. With its focus on both foundational principles and real-world applications—ranging from valve operations to advanced membrane separations—this book acts as a vital tool for anyone looking to excel in the chemical engineering profession.

Salient Features

• Core Technical Mastery: Comprehensive coverage of fundamental subjects like fluid mechanics, heat transfer, and thermodynamics.

• Interview-Ready Format: Concepts presented in a concise question-and-answer style, ideal for viva-voce and recruitment preparation.

• Industrial Equipment Insights: Functional details on hardware like orifice meters, venturi scrubbers, and various heat exchangers.

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• Advanced Separation Processes: In-depth explanations of liquid-liquid extraction, crystallization, and membrane-based techniques.

• Practical Applications: Strong focus on real-world scenarios, including wastewater treatment and industrial process control.

• Safety & Instrumentation: Critical guidance on PID controllers and specialized gauges for operational safety.

• Competitive Exam Alignment: Content tailored to the requirements of GATE, AMIE, and PSU recruitment exams.

• Diverse Domain Scope: Covers emerging and miscellaneous topics like carbon sequestration and environmental engineering.

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- Fired Heaters
- Mass Trasfer
- Mass Transfer with Chemical Reaction
- Packed Columns
- Mass Transfer Processes
- Diffusion
- Liquid-Liquid Extraction

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Author

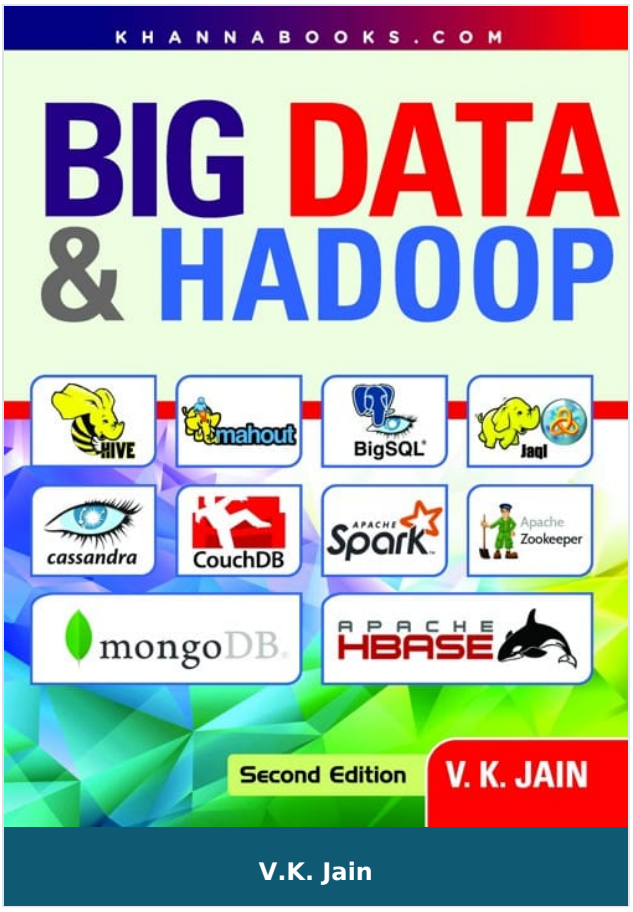
O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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Big Data & Hadoop

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Product Description

This book introduces you to the Big Data processing techniques addressing but not limited to various BI (business intelligence) requirements, such as reporting, batch analytics, online analytical processing (OLAP), data mining and Warehousing, and predictive analytics.

The book has been written on IBMs Platform of Hadoop framework. IBM Info sphere Big Insight has the highest amount of tutorial matter available free of cost on Internet which makes it easy to acquire proficiency in this technique. This therefore becomes highly vulnerable coaching materials in easy to learn steps. The book optimally provides the courseware as per MCA and M. Tech Level Syllabi of most of the Universities. All components of big Data Platform like Jaql, Hive Pig, Sqoop, Flume, Hadoop Streaming, Oozie: HBase, HDFS, Fume NG, Whirr, Cloundera, Fuse, Zookeeper and Mahout: Machine learning for Hadoop has been discussed in sufficient Detail with hands on Exercises on each.

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- PIG : THE HIGHER LEVEL PROGRAMMING ENVIRONMENT
- BIGSHEETS SPREADSHEET LIKE ENVIRONMENT
- BIGSHEETS WORKBOOKS
- SQOOP : IMPORTING DATA FROM HETEROGENEOUS SOURCES
- DATA STREAM MINING
- FLUME: BIG DATA REALTIME STREAMING
- R PROGRAMMING : A STRONG VISUALIZATION AND GRAPHICS TOOL
- OTHER COMPONENTS OF HADOOP : OZZIE,ZOOKEEPER AND MAHOUT

Author

V.K. Jain

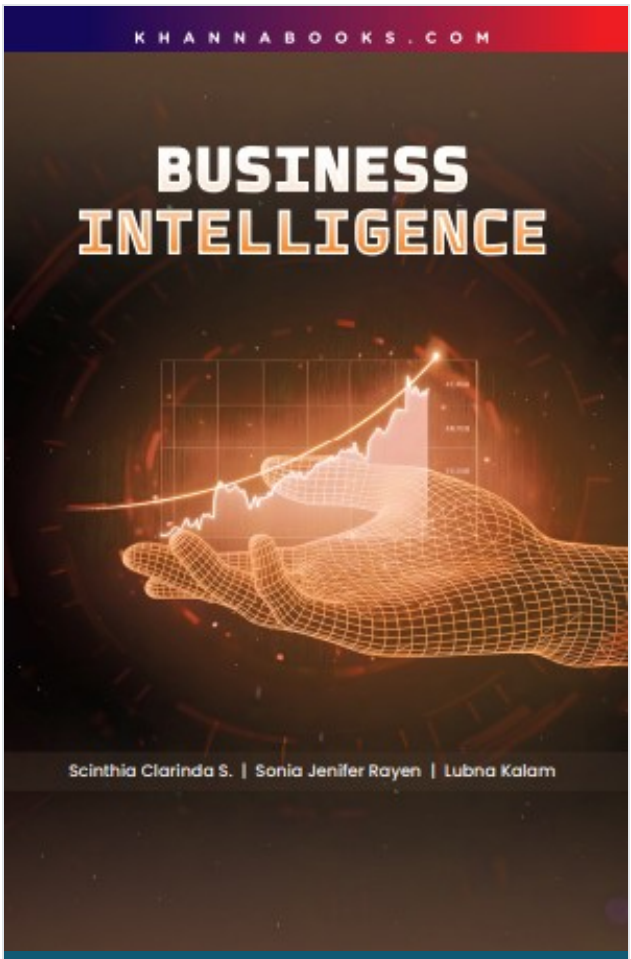
Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy

Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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Scinthia Clarinda S., Sonia Jenifer Rayen, Lubna Kalam

Business Intelligence

Author :	Scinthia Clarinda S., Sonia Jenifer Rayen, Lubna Kalam
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Product Description

Business Intelligence

This book, BUSINESS INTELLIGENCE, stands as an essential and comprehensive resource for professionals and students seeking to master the principles of data-driven decision-making. The core theme is the systematic use of technology, processes, and tools to convert an organization's raw data assets into actionable insights that drive improved operational performance and strategic foresight. It offers a rigorous, yet accessible, exploration of key BI concepts, covering the distinction between Data, Information, and Intelligence and the fundamental components of BI Architecture, including Data Warehousing, OLAP, and the crucial ETL process.

The practical value of this text is demonstrated through its detailed coverage of the BI Life Cycle, the implementation challenges organizations face, and the necessity of developing a strategic BI Roadmap. It uniquely integrates advanced topics like predictive analytics and the role of organizational culture in BI success. Designed for learners, practitioners, and researchers—from casual business users to professional data analysts—this book is an indispensable asset for anyone committed to leveraging data for business growth and a competitive advantage.

Salient Features:

- **BI Architectural Core**: Details the components of BI architecture like Data Warehousing and OLAP (Online Analytical Processing), showing how they enable rapid, multidimensional data analysis.
- **ETL Process Mastery**: Provides a deep dive into the Extract, Transform, Load (ETL) mechanism, detailing critical steps like data cleaning, filtering, and standardization necessary for building a robust Data Warehouse.

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- **Strategic Planning**: Explores the importance of developing a comprehensive BI Strategy and Roadmap, outlining essential steps for implementation, risk assessment, and achieving a clear Return on Investment (ROI).
- **User-Centric Design**: Focuses on end-user segmentation and the creation of user-friendly dashboards and scorecards. This ensures that complex data is accessible for informed decision-making.
- **Emerging Technology**: Covers the future of Business Intelligence, including the integration of AI/Machine Learning for automated analysis, cloud-based analytics, and real-time data processing.
- **MSBI Toolset**: Offers practical insights into the Microsoft Business Intelligence (MSBI) suite, specifically detailing tools like SSIS (ETL), SSAS (OLAP/Data Mining), and SSRS (Reporting).
- **Predictive Analytics**: Explores advanced analytical techniques like Data Mining and Statistical Analysis to uncover hidden patterns and develop predictive models for future business forecasting.
- **Implementation Challenges**: Discusses critical issues and challenges that organizations face, such as data quality issues, implementation complexity, and the Total Cost of Ownership (TCO).

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- Business Intelligence Life Cycle
- Business Intelligence User Model
- Business Intelligence Issues and Challenges
- Business Intelligence Strategy and Roadmap

Author

Scinthia Clarinda S.

Scinthia Clarinda S., Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology Sonia Jenifer Rayen, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology Lubna Kalam, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

Sonia Jenifer Rayen

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

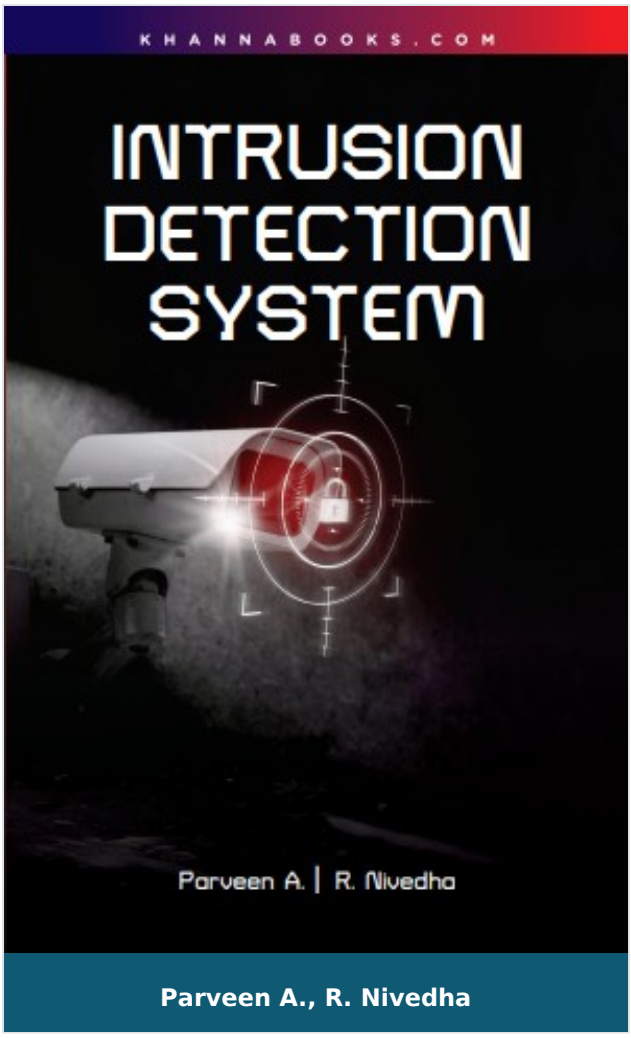
Lubna Kalam

Lubna Kalam, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

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Parveen A., R. Nivedha

Intrusion Detection Systems

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Product Description

Intrusion Detection Systems

"INTRUSION DETECTION SYSTEMS" offers a comprehensive and vital resource for navigating the rapidly evolving domain of cybersecurity. Written in an academic yet accessible tone, this book provides a thorough introduction to Intrusion Detection Systems (IDS), exploring their historical evolution, foundational concepts, and critical role in protecting modern digital environments. The core purpose of this text is to bridge the gap between theoretical knowledge and real-world application, equipping readers with the expertise to implement robust security strategies against increasingly sophisticated threats.

The book highlights the transformative impact of Machine Learning (ML) and Artificial Intelligence (AI) on IDS, detailing deep learning approaches, ML models for anomaly detection, and feature engineering techniques. It goes beyond traditional methods to address the unique challenges of securing emerging technologies such as the Internet of Things (IoT), cloud-based networks, and blockchain. Furthermore, it delves into advanced techniques like fuzzy logic, genetic algorithms, hybrid models, and real-time IDS using big data analytics.

This indispensable guide is meticulously structured with five units and includes detailed case studies, making it an essential text for its target audience: students seeking foundational knowledge, professionals looking to upgrade their deployment strategies, and researchers exploring open challenges like adversarial ML attacks and autonomous IDS development. It serves as a definitive roadmap for enhancing network resilience against the ever-changing cyber threat landscape.

Salient Features:

- **Core IDS Fundamentals**: Explore the history, evolution, and foundational principles of IDS. Compare signature-based, anomaly-based, and hybrid models, and understand key evaluation metrics like TPR and FPR.
- **AI-Driven Detection**: Master the use of Machine Learning and Deep Learning, including CNNs and LSTMs, to enhance anomaly detection capabilities and prepare large-scale datasets for modern IDS.
- **Securing New Frontiers:** Learn to design and implement specialized IDS for emerging technologies like IoT, cloud computing, and blockchain. Focus on lightweight solutions for resource-constrained mobile and edge environments.
- **Advanced Threat Mitigation**: Investigate cutting-edge techniques such as fuzzy logic and genetic algorithms in IDS. Understand hybrid models, distributed architectures, and real-time big data analytics for large-scale networks.
- **Future Resilience & Research**: Analyze emerging threats and explore future trends like autonomous and self-healing IDS. Study the defense against adversarial ML attacks and the strategic integration with SIEM systems.
- **Real-World Application**: Apply theoretical knowledge through five detailed case studies, including enterprise deployment, advanced financial institution solutions, and securing smart city infrastructure.
- **Defense Architecture**: Clearly differentiate between the passive monitoring role of Intrusion Detection Systems (IDS) and the proactive blocking function of Intrusion Prevention Systems (IPS) in modern security.

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- Machine Learning and Artificial Intelligence In IDS
- IDS for Emerging Technologies
- Advanced Techniques and Hybrid Models
- Future Trends and Research Challenges

Author

Parveen A.

Parveen A. , Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology R. Nivedha, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

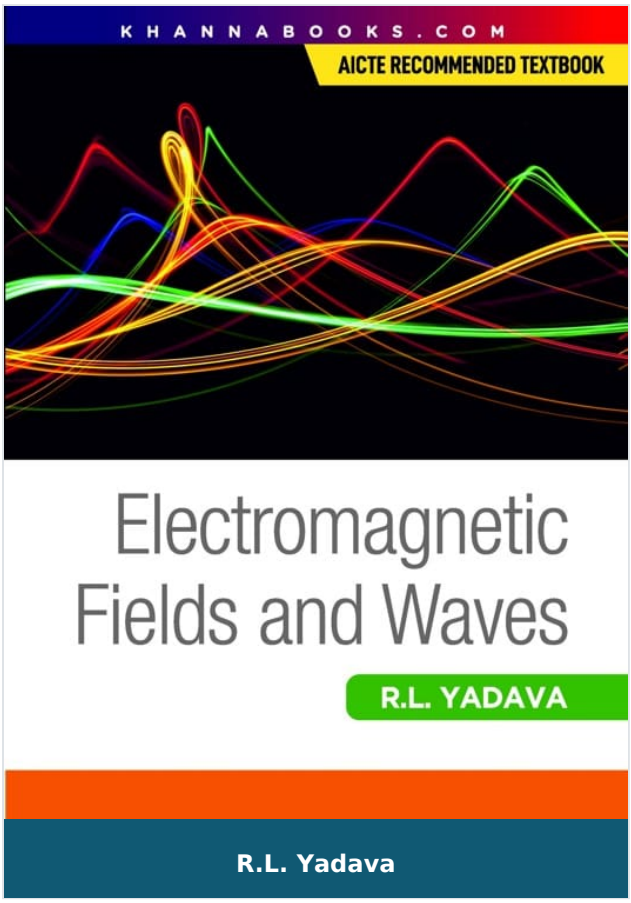
R. Nivedha

R. Nivedha, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

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Electromagnetic Fields & Waves

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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.

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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

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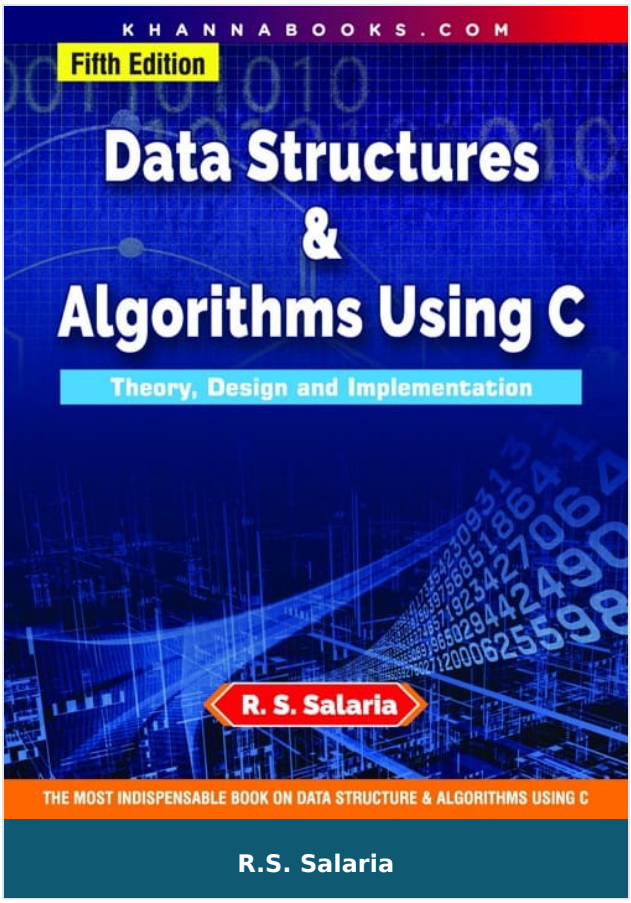
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Coordinator (UG) of Electrical Sciences. During his service at VIT, he was deputed as visiting faculty to KIGALI UNIVERSITY, KIGALI Center Africa. He has been coordinator of M.Tech programme of U.P. Technical University, 2007-08. He has organized several guest lectures, short-term training programmes, 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.

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Provides a comprehensive coverage of the subject, Includes numerous illustrative examples, Demonstrate the development of algorithms in a lucid manner, Demonstrate the implementation of algorithms in a good programming style, Provides challenging programming exercise to test your knowledge gained about the subject, Glossary of terms for ready reference.

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Author

R.S. Salaria

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for

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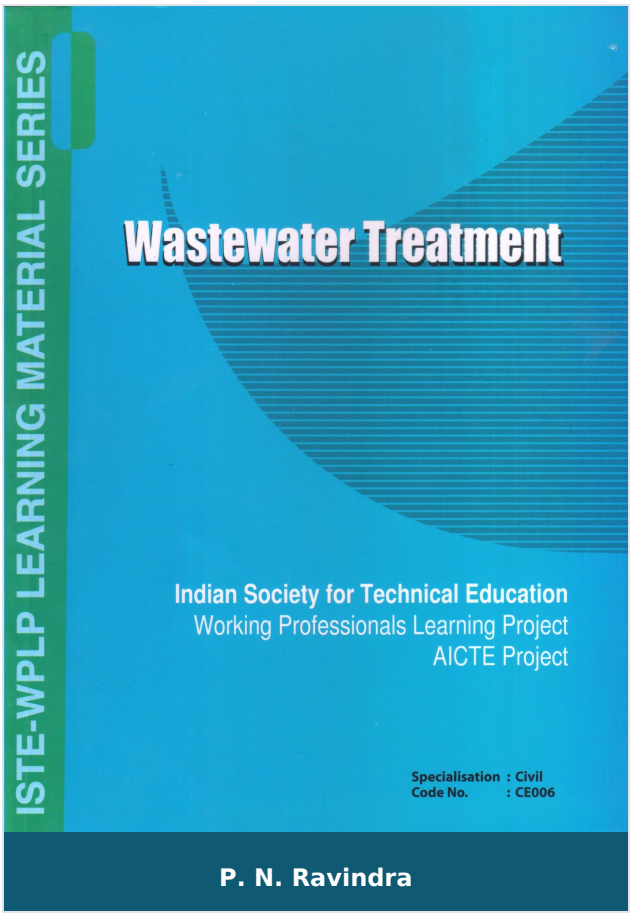
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Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

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Wastewater Treatment

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Product Description

This book written under working professional learning projects is with the intention of providing sufficient information and knowledge about the principles of wastewater treatment to the water works engineers. This book comprehensively deal with the basics of wastewater treatment, laying emphasis on current trends. To convey ideas and concepts more clearly, the book contains descriptive diagrams with suitable explanation. The book covers a broad spectrum of material dealing with wastewater treatment, as it is far more than just and update of the existing books on wastewater treatment, which includes the latest concepts and processes. The topics presented can be useful not only to the wastewater engineers, but also to the plant operators, and managers who are in the public utilities. This learning material will also be a useful reference book for planners, administrators, students and general readers. It will be of interest to those non-technical staff, who wish to understand technical issues relating to wastewater treatment. One who reads this book systematically from chapter one will surely acquire an understanding 0n the concepts of wastewater treatment, including schemes of treatment.

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- Residual Management
- Membrane Treatment Systems
- References,
- Glossary,
- Abbreviations

Author

P. N. Ravindra

Dr. P. N. Ravindra The author of this book is working as Assistant Executive Engineering for Bangalore Water Supply and Sewerage Board (BWSSB) and has more than 25 years of working experience in the field of water and wastewater treatment. He has written several books in water discipline and published several research papers. It is a matter of pride and privilege for the author to write a book for his fellow engineers, who can make this book worthwhile. He acknowledges the help he has received from Mr Narayana, Cheif

Engineer, (Retd), BWSSB in reviewing the material and also improving the quality of the book. Special thanks to Prof. NR Shetty, Chairman, Project Advisory Committee, ISTE-WPLP and Er AN Parameswaran, Project Officer and his staff, ISTE-WPLP, who have provided valuable suggestions and carried out the coordination in preparation of this material.