


# INNOVISION

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## Product Description

With ageing, we live a short future, where young people have to live there for rest of their lives. We are comfortable with friends and memories because we know them, but not with our future because we do not know it. We see problems in opportunities, in contrast youths see opportunity in problems. With better medical care and healthy food, today's 70- years old is healthier than those in their sixties a decade back and are more wealth with savings and service benefits, opening up anew market for consumption, clothing, holidays, properties and car hire. With more than hundred sensor, Al-sensitive signals and commands, our future car will be a computer on wheels, without accidents and bodyworks, Robots will care our elders and 3-D printing will relocate production with reduced costs. A smart phone can raise the labor income by 20 percent, as it enables instant connectivity between user and provider which will raise the GDP by 10 percent. It enables quality education online at no extra cost, liberating millions from poverty, illiteracy and ill-health. Our world will become less violent and corrupted; with our problems solved with opportunities making our planet more happy and livable, we can see more open exchange of knowledge, resources, collaboration and trust than conflicts and wars.

If creativity thrives when constrained, with problems to be solved by opportunity, India with one of the largest skilled talents in her campuses will regain its ancient glory of inventions and discoveries in the next future.

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- India’s
- Glory-Discoveries & Inventions
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- The Second Oldest Religion and the Second Oldest Language
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- The might
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- Trust and Collaboration
- Inspiration and Appreciation

## Author

**Chelat Bhuvanachandran**

Chelat Bhuvanachandran retired as Gen Manager-ME & Signatory with a Swiss company-AFG Arbonia-Forster-Holding AG in 2012. He started his career as a sales trainee with British Paints India Ltd and was operating from various locations in India and later in the Middle East. Back home after three years of consulting assignment with a German firm, he turned to volunteering to National causes and purposes. The first attempt was to script two books in 2021, ‘Living The Values’ – a Value narrative to Grass-root Leadership with a purpose of redefining our school model with values, patriotism and a purpose. The second book titled ‘The State of Israel’- a Start-up Nation to a Scale-up Nation, which inspires our youths to achieve impossible dreams. On submission to over one hundred Govt of India departments, NCERT, MoE, CDS and DRDO acknowledged with very positive appreciation while NCERT recognized the first one as learning tool tor up-skill HSE teachers and the second one as a reference document for education, military, economy and governance. Essentially in an uncontested space, it requires a theme, passion and stretched imagination, to script a book, where his next inspiration was intertwined with Prime Minister Narendra Modi’s vision that ‘Start-up Innovations will drive India’s GDP in next two decades’. He is not a specialist from any domains of accelerating technologies, but he selected ‘entrepreneurship’ which comes from the core skills of his past career. The result was ‘InnoVision’-The grand challenges of 21st century. He defines every big problem as a big business opportunity, where the convergent technologies could find a business solution for each of the UN’s 17 SDG-Sustainable Development Goals, where India and South Asia score poorest ranks in the world. The book’s target readership is the aspiring innovators from our technology campuses. Born to Sri (Late) M.K.K.Menon and Smt (Late)

Chelat Leelamma, Bhuvanachandran is married to Nirmala Pulapre, and lives in Sobha City Thrissur.

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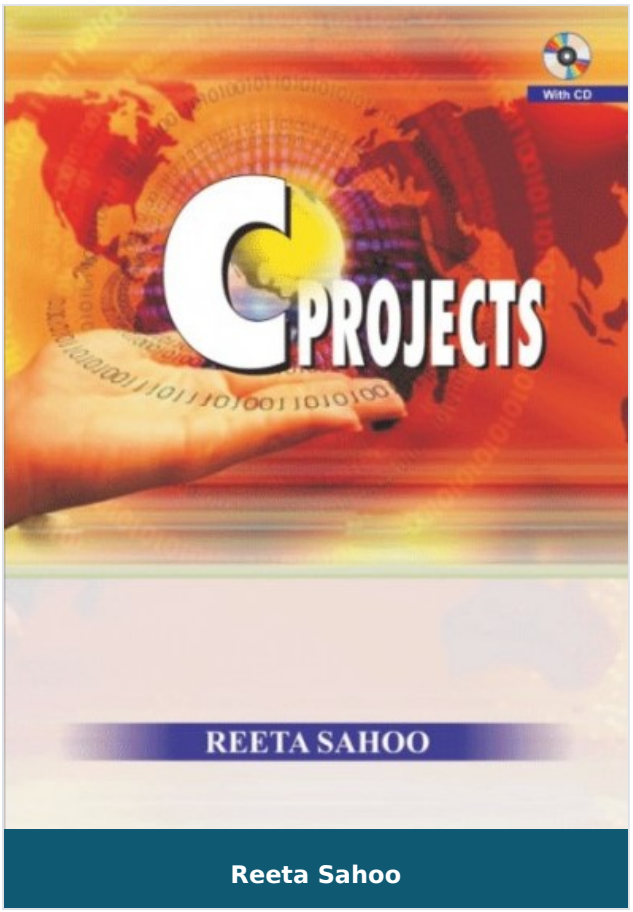


Reeta Sahoo

# C Projects

| | |
|---|---|
| **Author :** | Reeta Sahoo |
| **ISBN 13 :** | 978-81-87522-30-0 |
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## Product Description

This book has total 13 chapters on different projects and two appendices. In all the chapters the project development idea has been discussed with individual project concerned. Also almost in very chapter there are some functions of graphics commands and operational knowledge is emphasized to make good demonstration to the projects. whereas the graphics section are implemented in different functions only.

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- Pay Manager
- Library Management System
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- Bricks Game
- Charts and Graphs
- Graphics Demo
- Utility Services


## Author

**Reeta Sahoo**

Reeta Sahoo is an author of various books including, C++, VB, Java. Since last 10 years, she has lots of experience in different computer project works. She has written number of schoolbooks including C++, Visual Basic, Java, etc. This book helps lots to the beginner's who want to develpo programming skill in C++ language.

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A. Sivasangari, L. Lakshamanan, P. Ajitha

# Internet of Things

| | |
|---|---|
| **Author :** | A. Sivasangari, L. Lakshamanan, P. Ajitha |
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## Product Description

### Internet of Things

This comprehensive textbook, Internet of Things (IoT), serves as an essential guide to the disruptive technological network that is reshaping the physical and digital worlds. Moving beyond simple connectivity, the book provides a robust, unit-by-unit exploration of the entire IoT ecosystem, from the foundational hardware components to the advanced data analytics that drive decision-making.

The core theme is the intelligent integration and automation achieved by linking physical objects via sensors, actuators, and communication protocols. Its purpose is to equip readers with both theoretical knowledge—covering complex topics like reference architecture, protocols (MQTT, CoAP), and cloud service models (IaaS, PaaS, SaaS)—and practical, real-world application insights. Readers will learn how IoT transforms industries through technical optimization, waste reduction, and enhanced customer engagement.

The target audience includes undergraduate and graduate students in Computer Science, Electronics, and Information Technology, as well as researchers and industry professionals seeking to design, implement, or manage scalable IoT solutions. With dedicated sections on Big Data Analytics, Industry 4.0 concepts, and hands-on projects using platforms like Raspberry Pi and Arduino, this book offers a complete and engaging framework for understanding the future of interconnected technology.

### Salient Features

- **Foundational Concepts**: Provides a solid grounding by exploring the evolution from Machine-to-Machine (M2M) communication to the full Internet of Things, detailing key benefits like technical optimization and waste reduction.
- **System Architecture**: Offers a comprehensive, layered reference architecture covering the Device, Communication, Aggregation, and Data Analysis layers, along

with lightweight protocols like MQTT and CoAP.

- **Embedded Components**: Focuses on the physical layer, including the function and use of various sensors and actuators, alongside the crucial design of embedded systems and gateways for IoT devices.
- **Cloud Integration**: Discusses the convergence of IoT and Cloud Computing (IaaS, PaaS, SaaS) for scalable data management, featuring in-depth analysis of major platforms like AWS IoT and IBM Watson.
- **Big Data Analytics**: Contains a dedicated unit on managing the high Volume, Variety, and Velocity of IoT data, covering general data architecture and practical data visualization tools.
- **Development Boards**: Includes practical guidance on implementing projects using popular hardware platforms like Raspberry Pi, Arduino, and Intel Galileo, catering to hands-on learning and prototyping.
- **Business & Industry 4.0**: Outlines the vast business scope of IoT, covering concepts like Industry 4.0, economic transformation, and the new Information-Driven Global Value Chain (I-GVC).
- **Security & Threats**: Addresses critical challenges such as security threats (e.g., DDoS attacks) and the need for robust Identity and Access Management within the distributed and scalable IoT ecosystem.

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- Introduction to IoT
- IoT Connectivity and Hardware Platforms
- Communications and Connective Technologies
- Big Data Analytics
- Hands-On Projects


## Author


**A. Sivasangari**

A. Sivasangari Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

**L. Lakshamanan**

A. Sivasangari Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology P. Ajitha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology L. Lakshmanan Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

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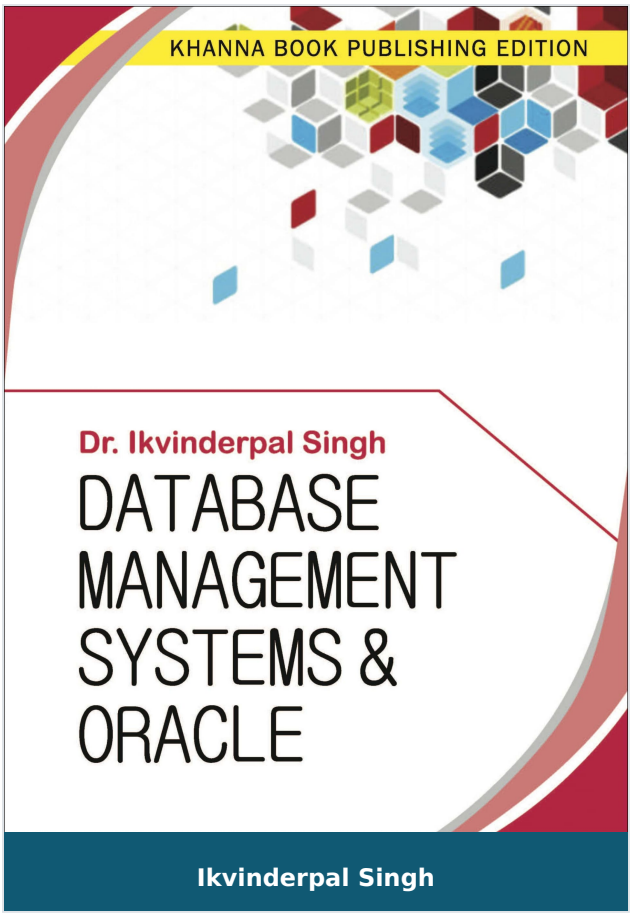


# Database Management Systems & Oracle

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## Product Description

The database in now the underlying framework of the information system, and has fundamentally changed the way many organizations operate. In particular, the developments in this technology over the last few years have produced systems that are more powerful and more intuitive to use. this has resulted in database systems becoming increasingly available to a winder variety of users. the objectives of this book, therefore, are to provide a textbook that introduces the theory behind database as clearly as possible and, in particular, to provide a methodology for database design that can be used by IT professionals, such as systems analysts or designers, application programmers, systems programmers, database practitioners, and for for independent self-teachers.

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- UNIT-I
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- More On Sql
- Sql Performance Tuning
- UNIT-2
- Introduction To Pl/Sql
- Pl/Sql Datatypes
- Pl/Sql Control Statements
- Pl/Sql Transactions And Concurrency Control
- Pl/Sql Cursors


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- Pl/Sql Subprograms
- Pl/Sql Database Triggers
- Handling Pl/Sql Errors

## Author

**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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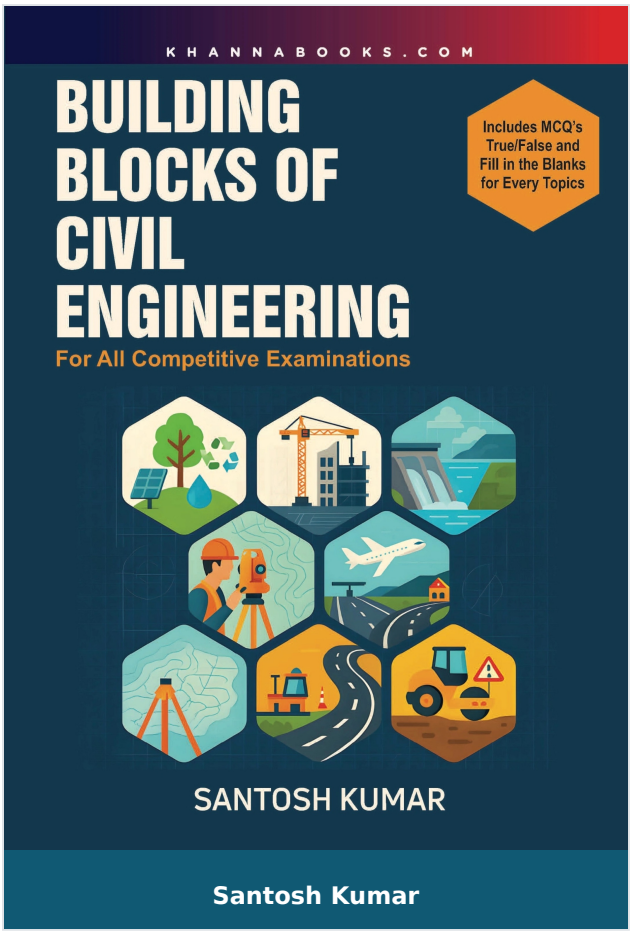


# Building Blocks of Civil Engineering (for All Competitive Examinations)

| | |
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## Product Description

This book is designed essentially to support and guide Civil Engineering graduates writing competitive examinations like GATE, ESE and State level and other similar test. This is the only book which besides 1786 MCQs, includes 1229 Fill-in-the blanks and 1189 True &False type questions. Additional feature included is 867 important definitions. Readers of this book are advised to read this book along with textbooks. If they have any queries or suggestions, please send them to the publisher.

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- Section 2: Construction- planning and Management
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- Section 4: Docks and Harbours
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- Section 6: Engineering Mathematics
- Section 7: Environmental Science
- Section 8: Fluid mechanics and Hydraulic machines
- Section 9: Groundwater
- Section 10: Hydrology
- Section 11: Irrigation
- Section 12: Materials
- Section 13: Open Channel Flow
- Section 14: Railway Engineering
- Section 15: R.C. Structures
- Section 16: River Engineering
- Section 17: Soil Mechanics and Foundation Engineering
- Section 18: Steel Structures
- Section 19: Strength of Materials
- Section 20: Structural Analysis


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- Section 21: Surveying
- Section 22: Transportation Engineering
- Section 23: Tunneling

## Author

**Santosh Kumar**

Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).

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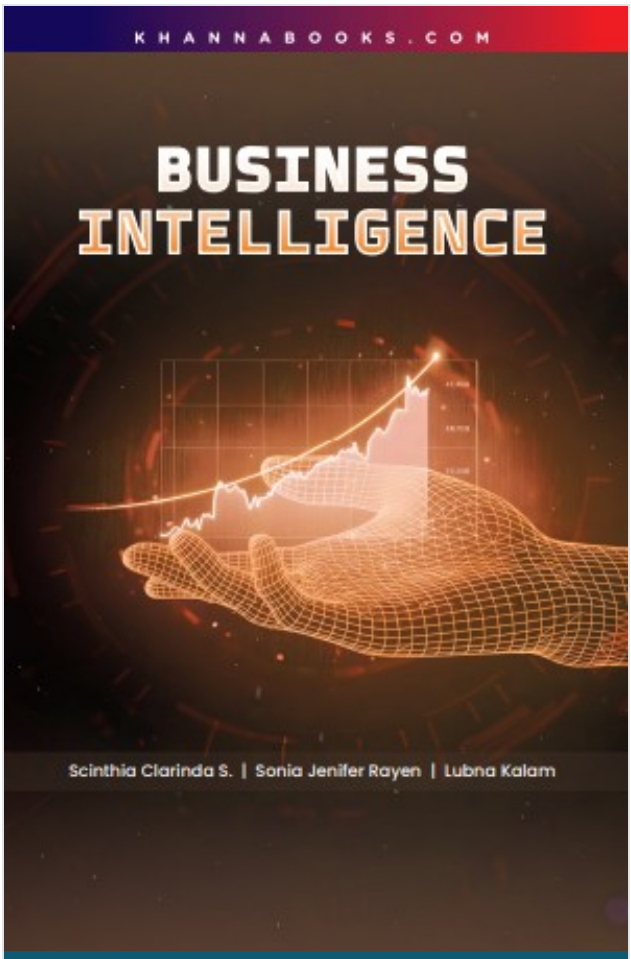


**Scinthia Clarinda S., Sonia Jenifer Rayen, Lubna Kalam**

# 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
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## Author


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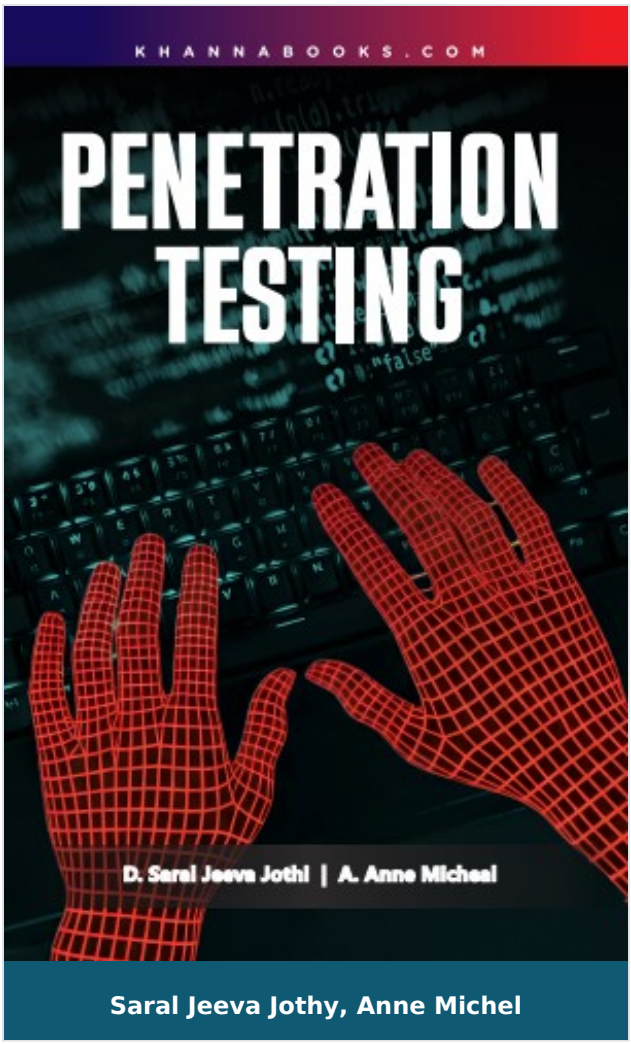


Saral Jeeva Jothy, Anne Michel

# Penetration Testing

| | |
|---|---|
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## Product Description

**Penetration Testing**

In today's digital age, where cyber threats are constantly evolving, Penetration Testing—often referred to as ethical hacking—is the most crucial practice for identifying and addressing security vulnerabilities.

Penetration Testing is designed to provide a comprehensive understanding of the field and its methodologies. This book offers a systematic approach to simulating cyberattacks on systems to uncover weaknesses before malicious hackers can exploit them. Readers will gain the theoretical knowledge and hands-on experience necessary to conduct effective security assessments in a controlled, ethical, and legal manner.

You will master the entire pen testing lifecycle: from initial reconnaissance and exploitation to post-exploitation and delivering a detailed, actionable report. By emphasizing practical skills and real-world tools, this resource prepares students and professionals alike to confidently secure systems and ensure compliance with critical industry regulations like PCI DSS, GDPR, and HIPAA.

**Salient Features:**

- **Foundational Knowledge**: Introduction to the basic principles of Cryptography, including detailed coverage of algorithms like AES, DES, RSA, and SHA.
- **Methodology Mastery**: In-depth discussion of the three major penetration testing approaches: Black Box, White Box, and Grey Box, and when to choose each method.
- **Five-Phase Process**: Step-by-step guidance through the entire pen testing procedure, covering Planning & Reconnaissance, Scanning, Gaining Access, Post-Exploitation, and Reporting.
- **OS & Network Exploitation**: Hands-on experience with Windows and Linux password hashes, exploitation in Internetworks, and testing Wireless Networks.

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- **Industry-Standard Tools**: Practical application of essential tools and frameworks, including Nmap for scanning, the Metasploit Exploitation Framework, and Netcat for pivoting and remote connections.
- **Compliance and Ethics:** Comprehensive coverage of the Ethical and Legal Considerations required to conduct penetration tests responsibly, ensuring tests adhere to governance frameworks.
- **Actionable Reporting**: Detailed structure and components of a professional Penetration Testing Report, including the Executive Summary, Risk Assessment, and clear, prioritized Recommendations for remediation.

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## Table Of Contents


- Preface
- Introduction to Penetration Testing
- Penetration Testing Methodologies
- Phase of Penetration
- Penetration Testing with Internet Works
- Penetration Testing in Linux, Window


## Author


**Saral Jeeva Jothy**

Saral Jeeva Jothy

**Anne Michel**

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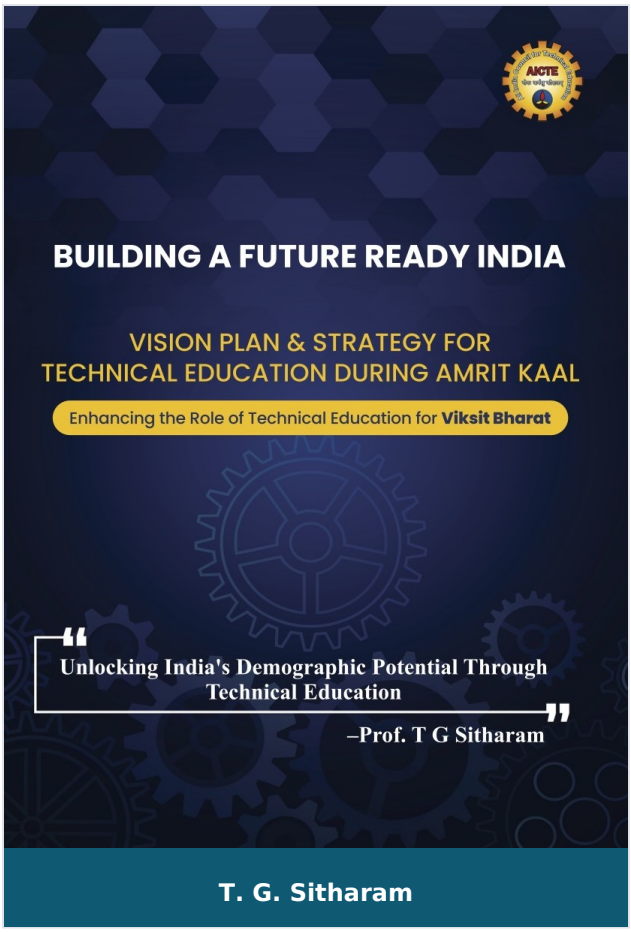


# Building a Future Ready India

| | |
|---|---|
| **Author :** | T. G. Sitharam |
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## Product Description

In the rapidly evolving landscape of technical education, the year 2047 stands as a pivotal juncture for India. Th is book delves into the transformational journey of technical education over the past few decades, offer insights on vision, plan and strategy for technical education in India, harness the potential of technical education in nation building and foresight into the innovations, challenges, and possibilities that have defined this dynamic era. The significance of technical education has soared to unprecedented heights in the last few years. India envisions a holistic Technical Education System that produces globally competitive skilled technical professionals. With the rise of artificial intelligence, quantum computing and sustainable engineering solutions, a paradigm shift is necessary to impart skill based knowledge and prepare future generations. This book is an attempt to understand the key elements of Technical Education which includes ‘Quality Education, Leveraging Technology, Integration of Skill in Curriculum, Promotion of R&D, Innovation in Pedagogy, Industry- Academia Collaboration etc. Drawing upon the collective wisdom of visionaries, educators, and pioneers in the field, this book endeavors to illuminate the transformative forces shaping technical education. It seeks to inspire educators, students, policymakers, and innovators alike to envision and concreate a future where learning is agile, inclusive, and empowers individuals to thrive in an ever-evolving world.

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- Developing Skilled & Job-Ready Workforce through Technical Education.
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- Building a Global Reputation for Technical Education in India.
- Role of NGOs, Private Sector in Technical Education in India.
- Leveraging Digital Platforms to Enhance Technical Education.
- Developing Sustainable Infrastructure for Technical Education in India.
- Strengthening Technical Education in Emerging Fields such as AI, IoT, Robotics, Cyber security, Quantum computing, Data analytics, UI/UX.
- Bridging the Skill Gap through Apprenticeship and Internship Program.


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- Role of Incubation Centers & Accelerators in Supporting Start-ups.
- Innovation in Pedagogy & Assessment Techniques for Technical Education.
- Enabling Entrepreneurial Mindset through Technical Education.
- Th e Role of Mentorship and Career Guidance in Technical Education.
- Developing Institutional Autonomy for Technical Education in India.
- Th e Need for Multi-Sectoral Partnerships for Technical Education.
- Building a Culture of Research and Innovation in Technical Education Institutions.
- Addressing the Challenges of Rural Technical Education in India.
- Importance of Financial Aid and Scholarships in Technical Education.
- Addressing Needs of Differently-Abled Students in Technical Education.
- Importance of Soft Skills & Higher Order Th inking Skills.
- Addressing the Challenges of Online and Hybrid Technical Education.
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- Technical Education Action Plan.
- Glimpses of AICTE Activities in 2023.
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- Conclusion.
- About the Author.


## Author

**T. G. Sitharam**

T. G. Sitharam is a civil engineer, professor at IISc Bangalore, former director at IIT Guwahati. Currently, he is serving as Chairman of the All India Council for Technical Education, (AICTE) from 1 December 2002 onwards. He is known for his works in the fields of rock mechanics, rock engineering geotechnical earthquake engineering. He is an

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elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

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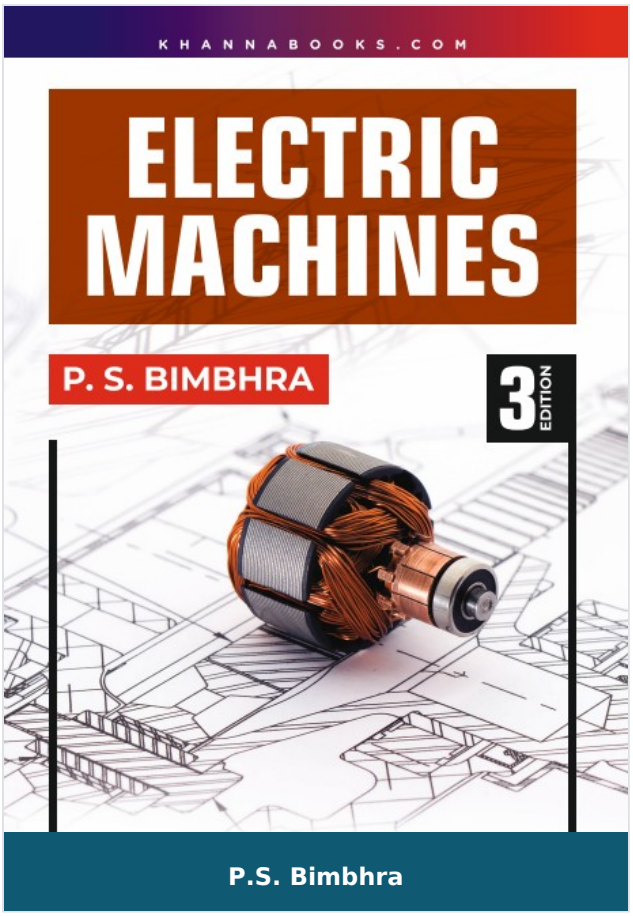


# Electric Machines

| | |
|---|---|
| **Author :** | P.S. Bimbhra |
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| **ISBN 10 :** | 9355386095 |
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## Product Description

This book is suitable as a textbook for undergraduate courses in electric machines. Subject matter in each chapter in so developed from basic principles that an average student can understand it easily. Since the text is written in simple language, this book would be found suitable even for diploma students and AMIE candidates. GATE and UPSC candidates would also find the book quite useful.

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- Transformer
- Electromechanical Energy Conversion Principles
- Basic Concepts of Rotating Electric Machines
- D.C. Machines
- Synchronous Machines
- Three Phase Induction Motors
- Single Phase Motors
- Special Machines


## Author

**P.S. Bimbhra**

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.

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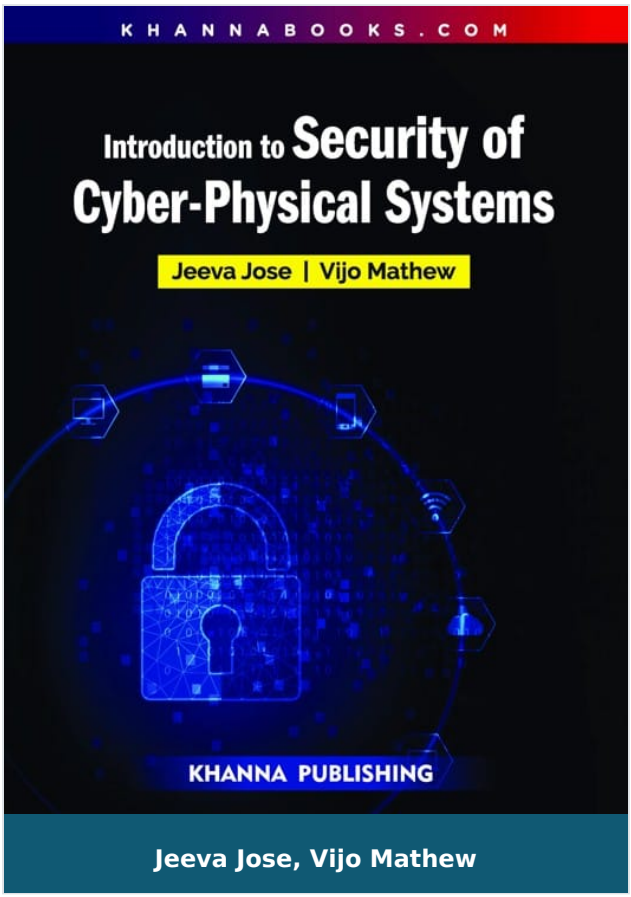


# Introduction to Security of Cyber-Physical Systems

| | |
|---|---|
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Salient Features of this book:-

1. Covers Complete AICTE syllabus of Security of Cyber Physical Systems (IOT-O2) miner change degree course .

2. The basic of security and various types of security issues are explained

3. Different cryptography techniques and various security attacks are discussed.

4. Network security and how they are implemented in real world is demonstrated.

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- Introduction
- to Security of Cyber-Physical Systems


## Author


**Jeeva Jose**

Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and areas of interests include world wide web, Data Mining and Cyber laws. She has been in higher education for the last 15 years and has completed three research projects funded by UGC and KSCSTE. She has published more than twenty research papers in various refereed journals and conference proceedings. She has edited three books and has given many invited talks in various conferences. She is a recipient of ACM-W Scholarship provided by Association for Computing Machinery, New York.

**Vijo Mathew**

Vijo Mathew is a highly accomplished engineer with three decades of experience in driving innovation and growth in various electrical, electronics, and information technology industries. His track record is complemented by a postgraduate degree in management, equipping him to excel in business management, strategic management, and technology management. His expertise is highly valued in the fields of software, electrical and electronics hardware, and design where he provides strategic guidance and mentorship to organizations seeking to stay ahead of the curve. He has demonstrated a unique ability to bridge the gap between technology and business driving success through his visionary approach and collaborative leadership style. His leadership skills and technical acumen have made him an advisor to some reputed national and



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international corporations. As an advisor and strategic leader, he is helping organizations achieve their full potential through innovative solutions, effective management, and visionary leadership. He is also author of many books related to technology and management.

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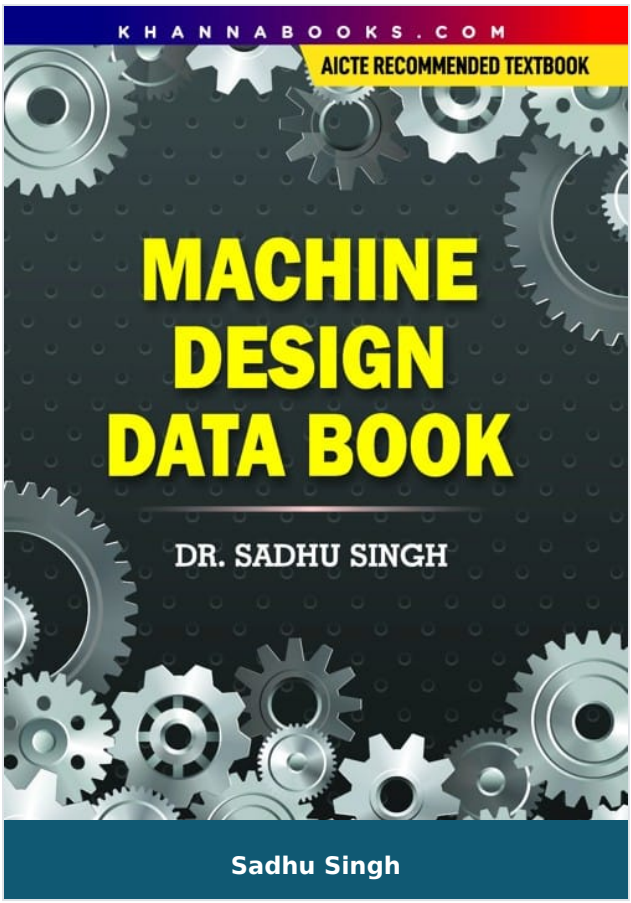


# Machine Design Data Book

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| **Author :** | Sadhu Singh |
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| **ISBN 10 :** | 9382609512 |
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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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- Welded Joints
- Screwed Joints
- Power Screws
- Transmission Shafts
- Keys and Couplings
- Cotter Joints
- Knuckle Joint
- Pipe Joints
- Mechanical Springs
- Flat and V-Belts
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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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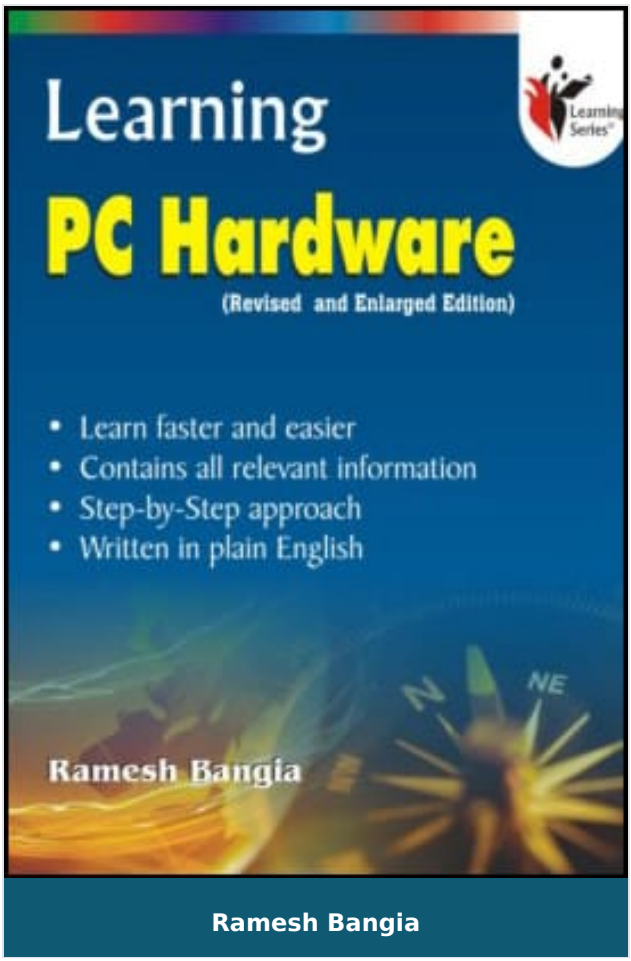


Ramesh Bangia

# Learning PC Hardware

| | |
|---|---|
| **Author :** | Ramesh Bangia |
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## Product Description

Learning of a software is both easy and difficult. It depends up to what level you planning to learn. If you are learning only for the working use, then it is very easy. But, when you try to go deep into it, then you realize how difficult it is to master it. PC Hardware is such a vast subject that it will take a lot of time to understand it fully. This book has been written in mind to make you aware of the options available in the software and how they can be used. It is like telling the child about the steps and stairs. You are the one who is to climb the stair. This book will just guide you how to use the stairs.

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- Introduction to PC Hardware
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- Output Devices
- Storage Devices
- Inside the CPU
- Boot Process and BIOS
- Computer Memory
- Maintaining the Computer
- Assemble a Computer
- 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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