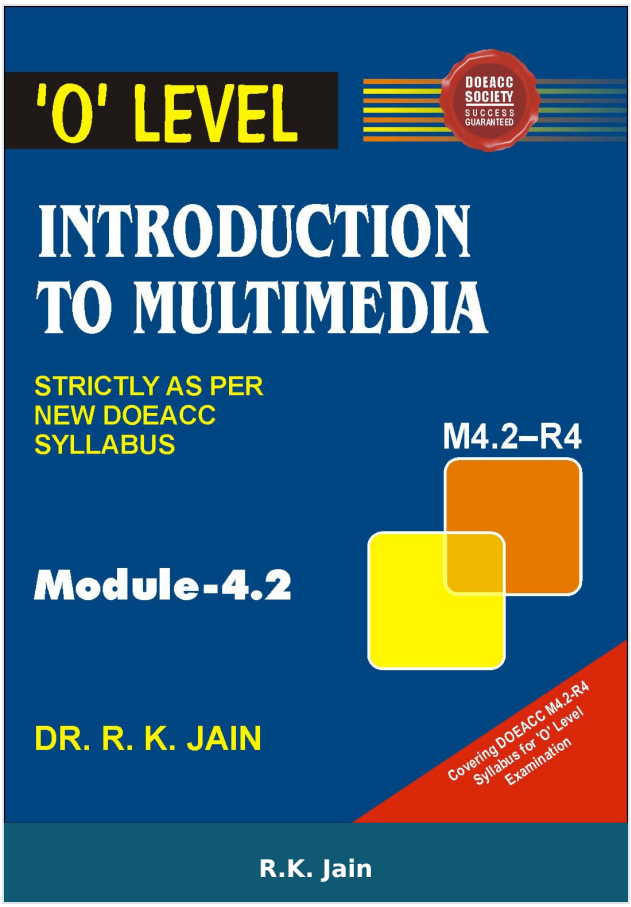


'O' LEVEL Introduction to Multimedia

Author :	R.K. Jain
ISBN 13 :	978-93-80016-67-2
ISBN 10 :	9380016670
E-ISBN 13 :	978-93-80016-67-2
Edition :	1
Pages :	310
Type of book :	Physical
Year :	2015
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 250.00
Categories :	NIELIT / DOEACC Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Written strictly according to the syllabus for M4.2-R4 paper of 'O' Level as prescribed by DOEACC examination, it covers various topics of multimedia, its applications, creation and usage. Topics like fonts, hypertext, images, audio and video formats are also covered. also how these are combined to create a good-looking multimedia application. Each topics is covered in a separate chapter answer has questions based on the pattern suggested by DOEACC. Students reading this book and solving all the questions given with the chapters and the sample papers as the end of it are sure of getting through the exams. Special features of the book are review question at the end of each chapter, Sample papers at the end of the book, Glossary and index is provided too, wherever necessary topics are explained with screen shots.

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Table Of Contents

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- Image Fundamentals and Representations
- Video and Animation
- Multimedia Authoring
- HTML Basics
- Sample Paper
- Glossary
- Index

Author

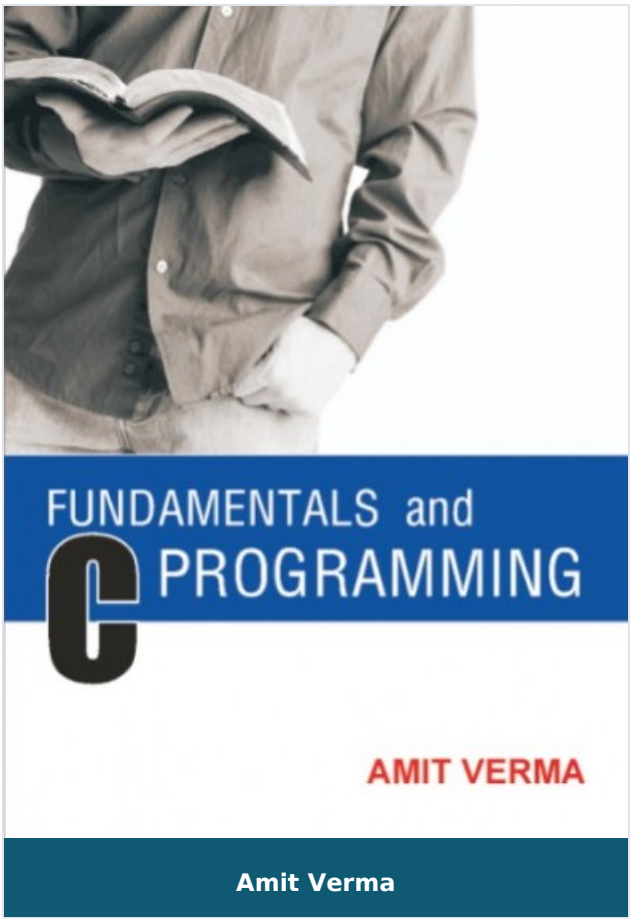
R.K. Jain

Dr. R.K. Jain studied at IIT Powai and submitted his thesis for Ph.D at Iit Delhi. He has held various important posts in the past. At present he is advisor to variuos universities on setting up of a computer department and setting up of the syllabus for the same. With his knowledge of the various computer topics, he is and ideal choice for writing these kinds of books.

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Fundamentals and C Programming

Author :	Amit Verma
ISBN 13 :	978-93-80016-92-4
ISBN 10 :	9380016921
E-ISBN 13 :	978-93-80016-92-4
Edition :	First
Pages :	340
Type of book :	Physical
Year :	2013
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 275.00
Categories :	Computer Science Engineering, Book Store
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

Primary aim of this book is to provide the complete syllabus for I year B. Tech students of Uttarakhand Technical University as well as for students of Uttar Pradesh Technical University. And also provides the crystal clear concepts of C programming language. this book provides the brilliant images for maximum topics so the students can get the maximum understand ability of the topic. The book consists of detail knowledge of some major topics which are not clearly explained in most of the books like DFD, Flow charts, Pointers, Structure, union...etc. This book consist of more than sufficient solved example of each type almost all the important C programs to give the best possible way to make the students understand the topics.

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Table Of Contents

- Concepts in Computer and Programming
- Programming Language Classification and Program Methodology
- Digital Fundamentals
- Concepts of Operating System, Office Tools and Data Management
- Data Type
- If Statement
- For Loop
- Array
- Pointer
- Structure
- Functions
- File Input/Output

Author

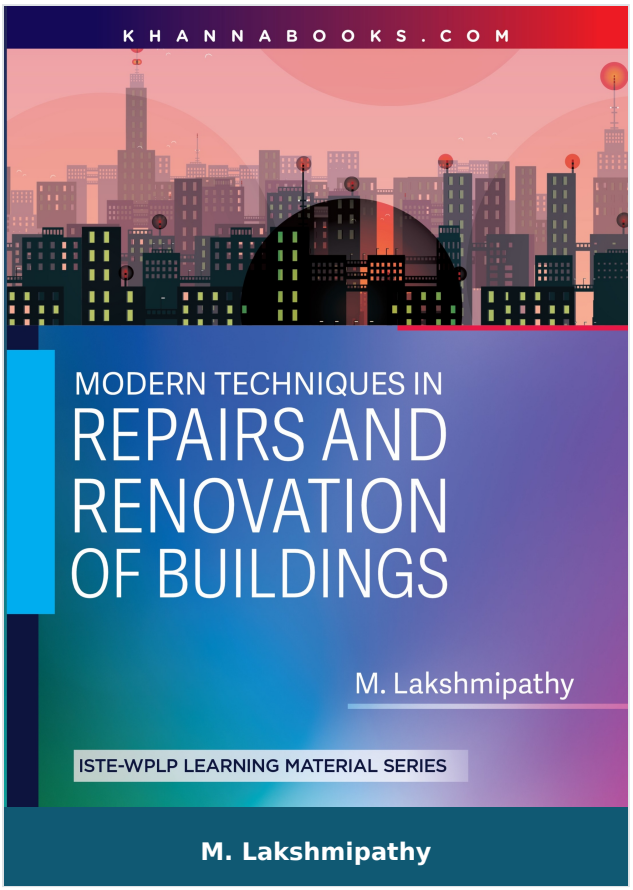
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Modern Techniques in Repairs and Renovation of Buildings

Author :	M. Lakshmipathy
ISBN 13 :	978-93-55384-74-4
ISBN 10 :	9355384742
E-ISBN 13 :	978-93-55384-74-4
Edition :	1
Pages :	88
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 148.00
Categories :	Civil Engineering, Book Store, ISTE Series
Condition Type :	New
Country Origin :	India

Product Description

The preparation of learning material on " **Modern Techniques in Repairs and Renovation of Building**" is undertaking by Indian Society for Technical Education under the Working Professionals Learning Project. The various topics covered in this materials are routing and sealing, stitching techniques for members failing in flexure, shear, torsion and excessive compression, use of pressure forms for replacement of concrete and small introduction on ultrasonic pulse velocity method and rebound hammer methods for assessing the in-situ quality of concrete and strength respectively. Since there is no authentic information material available at one place, the necessity arises to have this material. The authors feel that this material fulfills the requirement of much needed information and techniques to implement in the field whenever the need arises. It is felt that transfer of technology for implementation will be fulfilled by this learning ma

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Table Of Contents

- FOREWORD
- PREFACE
- Introduction to Distress in Concrete Structures
- General Information Remedial Measures
- Details Methods of Crack Repair
- Details of Repair of Crack by Stitching
- Patching Technique_ SLAB, FLOOR AND WALLS
- repairing of Active Cracks
- Sealing of Cracks in Walls by Epoxy Injection
- Strengthening Techniques
- Jacketing Techniques
- Replacement of Concrete by Pressure Forms
- Assessment of Quality and Strength by Using Non-Destructive Test (NDT) (Rebound Hammer & UPV)
- REFERENCES

Author

M. Lakshmipathy

Dr. M. Lakshmpathy is a graduate in Civil Engineering and post graduate in Structural Engineering and obtained his Ph.D. in the area of ductility of Structural members using fibrous concrete. He served Anna University for 34 years and retired as Head of the department of Civil Engineering, College of Engineering, Guindy (now Anna University), Chennai in 2002. He presented and published number of research papers in National and International Conferences/Seminars and National International journals. He served as

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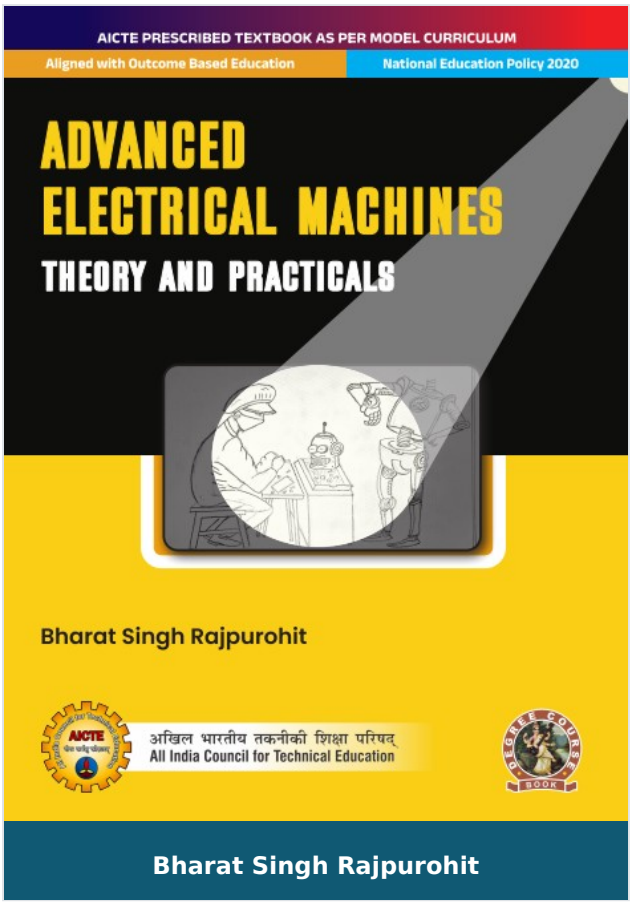
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Chairman of Tamil Nadu Centre of Indian Concrete Institute, a premier professional body. He served as an expert member nominated by Government of Tamil Nadu for renovation for Madurai Meenakshi Temple, Thirumalai Naicker Mahal in Madurai and Tanjavur Palace and Saraswathi Mahal at Tanjavur. Now he is a Professor in Civil Engineering SRM University, Chennai. He has guided about 6 Ph.D Students, one M.S (by research) student, and has guided numerous B.Tech and M.Tech project works. He is now a member of the United Kingdom India Education Research Initiative (UKIER) through SRM University Chennai.

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Advanced Electrical Machines: Theory and Practicals

Author :	Bharat Singh Rajpurohit
ISBN 13 :	978-93-55382-16-0
ISBN 10 :	9355382162
E-ISBN 13 :	978-93-55382-16-0
Edition :	First
Pages :	456
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 798.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Advanced Electrical Machines: Theory and Practicals

“Advanced Electrical Machines: Theory and Practical’s” is a course that equips engineering students with a comprehensive understanding of advanced concepts in AC electrical machines, enabling them to analyze, design, and evaluate machine performance. This textbook offers a well-structured, student friendly introduction to AC machines, specifically tailored for fourth semester undergraduate students of core engineering branches. Drawing upon the AICTE’s revised model curriculum, the material presents a balanced integration of theory and practical applications. It covers key topics such as the fundamentals of AC machine windings, the behavior of pulsating and revolving magnetic fields, the operational characteristics of induction and synchronous machines, and single-phase motor theory. Emphasis is placed on understanding the underlying electromagnetic principles, performance characteristics, and modern methods for control and testing. Book will help students in building a strong foundation and to gain both analytical and practical competencies. By the end of this course, students will be able to understand, analyze, and characterize the AC machines.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Program Outcomes, and Unit Outcomes.
- At the beginning of each unit learning outcomes are listed to make the student understand what is expected of him/her after completing that unit.
- The book provides a lot of recent information, interesting facts, references for further reading, simulation codes, etc.
- Student and teacher-centric subject materials included in the book in a balanced and chronological manner.

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- Figures, tables, and output waveforms are included to improve the clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond the syllabus.
- At the end of each chapter, short questions, objective questions, and long answer exercises are given for the students to practice.
- Problems including numerical examples are solved with systematic steps provided.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations
- Guidelines for Teachers
- Guidelines for Students
- List of Figures
- Fundamentals of AC Machine Windings
- Pulsating and Revolving Magnetic Fields
- Induction Machines
- Single-Phase Motors
- Synchronous Machines
- Advanced Electrical Machines: Curriculum Experiments
- Unit summary
- References and suggested readings
- Further Reading
- References for Further Learning
- CO and PO Attainment Table
- Index

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Advanced Sensor Technology Handbook

Author :	Sabrie Soloman
ISBN 13 :	978-93-55389-49-7
ISBN 10 :	9355389493
E-ISBN 13 :	978-93-55389-49-7
Edition :	1
Pages :	1492
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 950.00
Categories :	Computer Science Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

ADVANVED SENSOR TECHNOLOGY HANDBOOK

This handbook explores the transformative role of sensor technologies in industrial and medical sectors. It highlights their integration with AI, IoT, AR/VR, 3D printing, blockchain, and cybersecurity. From predictive maintenance in manufacturing to real-time health monitoring and 3d bio-printing in medicine, sensors enhance efficiency, safety, and innovation. The book also examines historical developments, ethical concerns, and future prospects, including their role in automation, data security, and smart systems. A valuable resource for understanding how sensor technologies are shaping modern industries and improving lives.

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Table Of Contents

- Types and Classifications of Sensors and Control Systems 2. Fiber Optics in Sensors and Control Systems 3. Networking of Sensors and Control Systems in Manufacturing 4.The Role of Sensors and Control Technology in Computer-Integrated Manufacturing 5. Advanced Sensors Technology in Precision Manufacturing Applications 6. Industrial Sensors and Control 7. Sensors in Flexible Manufacturing Systems 8. Communications 9.MEMS Application in Energy Management 10. The NANO/MEMS Program 11. MEMS in The Medical Industry 12. MEMS: Current and Future Technology? 13. MEMS Advanced research and development 14. Functional integration of microsystems in silicon 15.automotive applications of microelectromechanical systems 16. A brief study of magnetism and magnetic sensors 17. The fundamentalsand value of infrared thermometry 18. GMR: the next of magnetic field sensors 19. Smart civil structures, intelligent structural systems 20. True online color sensing and recognition 21. Fundamentals of solid-state presence –technologies 22. Design and application robust instrumentation sensors in Extreme Environments 23. Color machine vision 24. Monolithic integrated physical and chemical sensors in CMOS Technology 25. A research prototype of a networked smart sensor system 26. Sensors and transmitters powered by fiber optics 27. A portable object-oriented environment model (PEOM) for smA process for selecting a commercial sensor actuator bus as an industry interoperable standard 28. art sensors 29. New generation of high- temperature fiber-optic pressure sensors 30. Principles and applications of acoustic sensors used for gas temperature and flow measurement 31. Understanding and applying intrinsic safety 32. Application of acoustic, strain, and optical sensors to NDE of steel highway bridges 33. Long- term monitoring of bridge pier integrity with time domain reflectometry cables 34. Sensors and instrumentation for the detection and measurement of humidity 35. Thermal imaging for manufacturing process and quality control 36. Detection of ppb levels of hydrazine using flourescescence and chemiluminescene techniques 37. Molecular relaxation rate spectrometer detection theory 38. Current state of the Art in hydrazine sensing 39. Microfabricated sensors: taking blood testing out of the laboratory 40. Closed-loop control of flow rate for dry bulk solids..... ETC.

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Author

Sabrie Soloman

Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensoR x, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition), Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation, Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design

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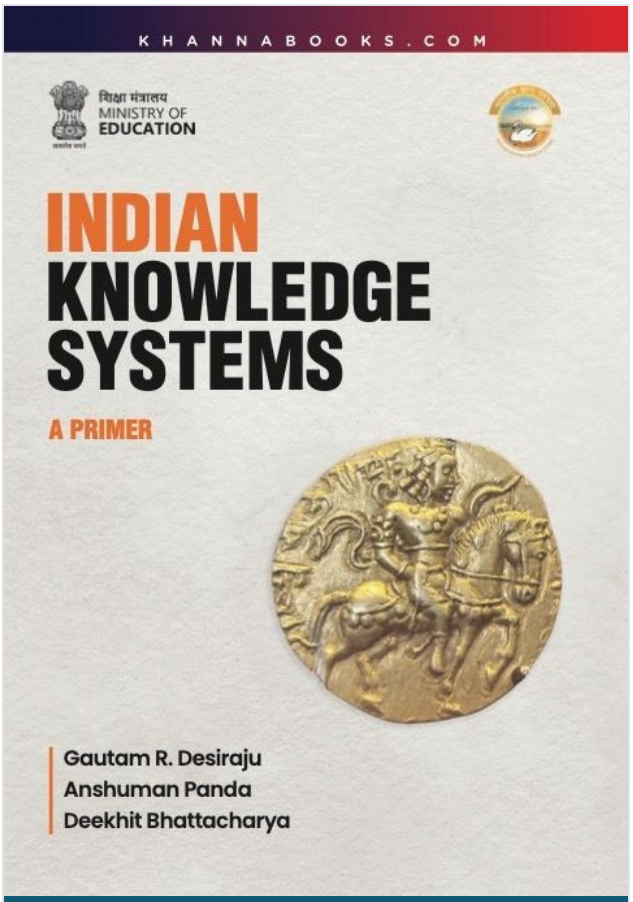
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Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya

Indian Knowledge System- A Primer

Author :	Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya
ISBN 13 :	978-93-09437-26-7
ISBN 10 :	930943726X
E-ISBN 13 :	978-93-09437-26-7
Edition :	First
Pages :	200
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	New Arrivals, Book Store, Education & Knowledge Systems
Condition Type :	New
Country Origin :	India

Product Description

The subject of Indian Knowledge Systems (IKS) has seized the attention of educationists, policy makers and administrators in universities and other teaching institutions. IKS has now entered the mainstream discourse and is the topic of discussion among both students and teachers.

The purpose of this introductory text, Indian Knowledge Systems: A Primer, is to present a perspective of an educational system that propelled our ancient country into a position of unparalleled and largely unrivalled position of economic and military superiority. This book explores how this actually came about, and sadly enough the roots of its decline, because of historical events that the people of this country were able to neither predict nor control.

This book also attempts to show how we can engineer a renaissance in IKS, in a country that is only now seeking its place in a new world order where paradigms of governance, war, and economies that have held sway for over 500 years are being overthrown with bewildering speed. At such a time, we hope that this introductory text will stoke a curiosity among young students who are at the threshold between school and college, and prompt them to ask whether they have it within themselves to be a part of this intellectual renaissance. Invoking Indians from the former generations, we are going to the distant past is, we believe, a worthwhile exercise because we are a part of a continuous civilization that shows little sign of real decline even after 5000 years.

This book is typeset in two vertical columns. The text on the left-hand side is typical curriculum material and may be the subject of quizzes, tests and examinations. The material on the right-hand side is extra, supporting text, that will hopefully enhance the enjoyment of the left-hand side with its illustrations, and the audio and video links. We urge teachers not to consider the right-hand side information as material suitable for tests and examinations, as this was not the intent of introducing the right-hand side

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column.

We trust this book will be of interest to students and teachers and that our perspective on IKS will impel them to seek new avenues towards its study.

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Table Of Contents

- What is Indian?
- What is Knowledge?
- What is Systems?
- What is IKS?
- Bhartiya Civilizational Reawakening

Author

Gautam R. Desiraju

Gautam R. Desiraju

Anshuman Panda

Anshuman Panda

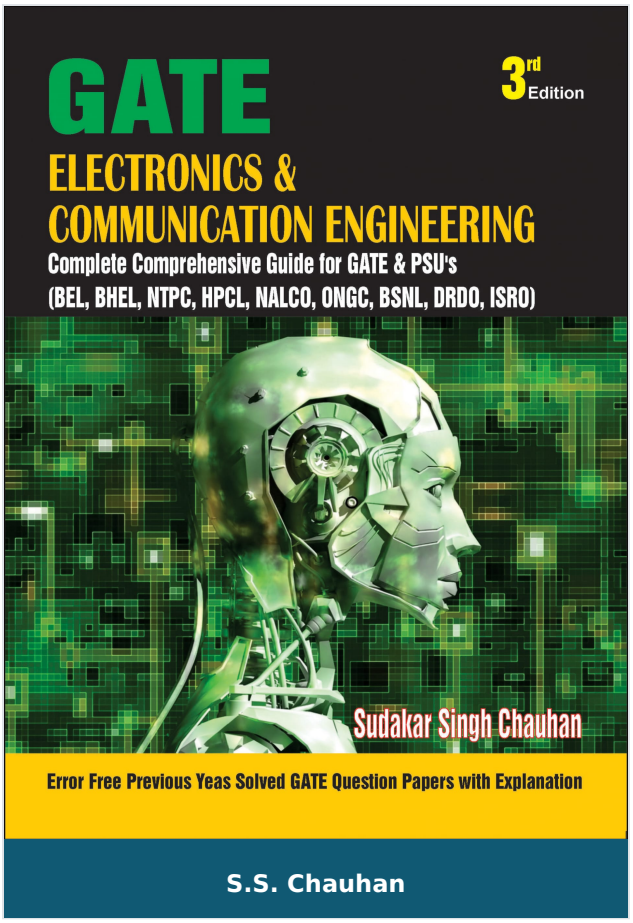
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GATE Electronics & Communication Engineering

Author :	S.S. Chauhan
ISBN 13 :	978-93-82609-63-6
ISBN 10 :	9382609636
E-ISBN 13 :	978-93-82609-63-6
Edition :	3
Pages :	536
Type of book :	Physical
Year :	2015
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 485.00
Categories :	OBJECTIVE TYPE BOOKS, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book contains topic wise solved 20 years paper of GATE in electronics & communication engineering and 5 fully solved new questions for GATE examination to provide to approach and relevancy for the GATE examination. Efforts have been made to provide error free answer & tricky solutions and explanations. It has been kept in consideration that the book should fulfill the need of GATE examination standard and syllabus.

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Table Of Contents

- Network Theory
- Electronic Devices & Analog Circuits
- Digital Circuits
- Microprocessors
- Control System
- Signals & System
- Communication System
- Electromagnetic Field Theory
- Engineering Mathematics
- General Aptitude
- Gate 2013 Solved Paper
- Gate 2014 Solved Paper
- Gate 2015 Solved Paper
- Model Test Paper-1
- Model Test Paper-2
- Model Test Paper-3
- Model Test Papre-4
- Model Test Paper-5

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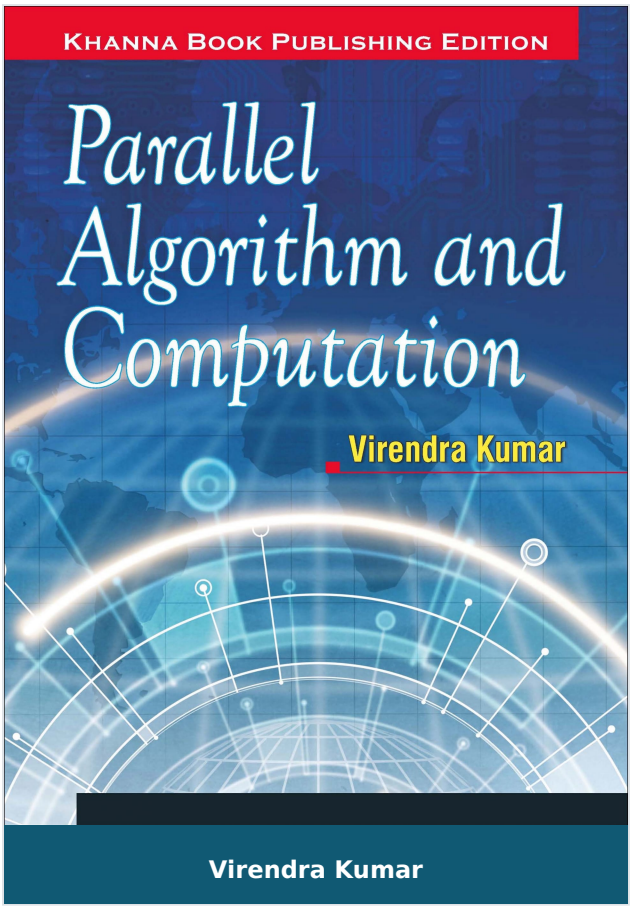
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Haryana, India. He worked in BSNL (BSNL_JTO) as a Switch Engineer and later on resigned so that he can contribute his knowledge & experience for the betterment of young generation. He was involved in GATE preparation classes and had taught several core courses like Electronics Devices & Analog Circuits, Digital Electronics, Signals & Systems, Control Systems, Microprocessor, Analog and Digital Communication etc.

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Parallel Algorithm and Computation

Author :	Virendra Kumar
ISBN 13 :	978-93-81068-86-1
ISBN 10 :	9381068860
E-ISBN 13 :	978-93-81068-86-1
Edition :	1
Pages :	348
Type of book :	Physical
Year :	2013
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 275.00
Categories :	Computer Science Engineering, Book Store
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

This book comprises all the aspects like principle and techniques for parallel algorithm, Parallel processing system, for B. Tech/MCA/M. Tech. Students of computer science and engineering/information technology. This book consist the syllabus of all Indian Universities, It also provides the basic concepts of parallel algorithm and computations.

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Table Of Contents

- Introduction Of Parallel Computation
- Parallel Computation Models & Interconnection Network
- Performance Measures Of Parallel Algorithms
- Parallel Sorting Networks
- Parallel Algorithm Designing
- Parallel Matrix Algorithm
- Linear Equation
- Graph Algorithm
- Combinatorial Search
- Parallel Programming Languages
- Appendix (a) polynomial
- Appendix (b): Open MP
- Appendix (c) : Message Passing Interface
- Model Test Paper 1-7
- Bibliography
- Index

Author

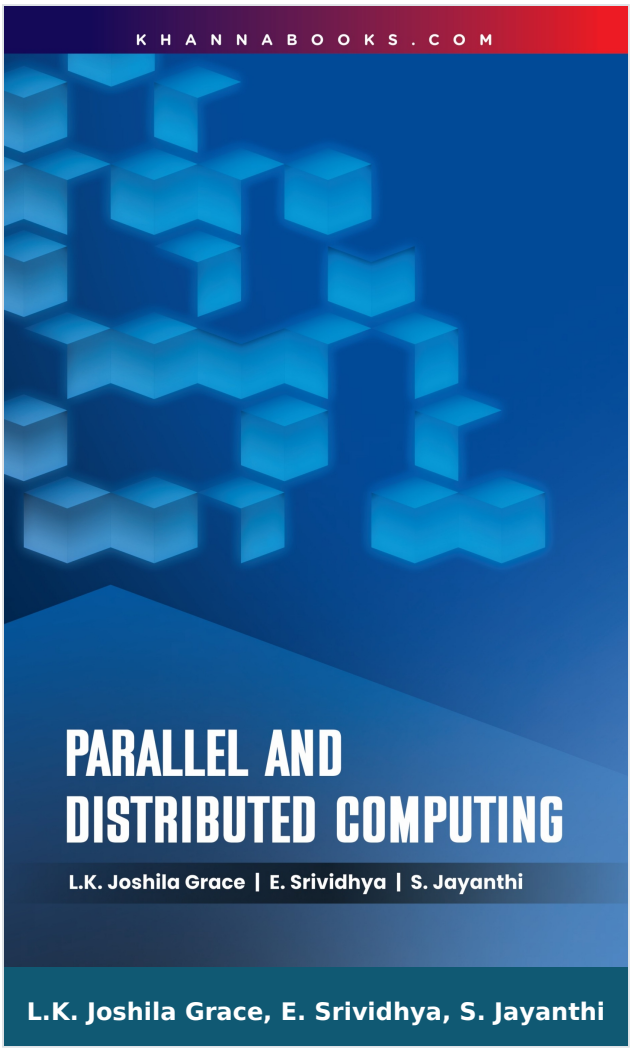
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Parallel and Distributed Computing

Author :	L.K. Joshila Grace, E. Srividhya, S. Jayanthi
ISBN 13 :	978-93-55383-09-9
ISBN 10 :	9355383096
E-ISBN 13 :	978-93-55383-09-9
Edition :	First
Pages :	136
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 248.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

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Product Description

The rapid growth in data processing and the increasing complexity of computational problems have made Parallel and Distributed Computing (PDC) an essential field in modern technology. This book serves as a comprehensive and authoritative guide, providing both the theoretical foundations and practical insights required to master this evolving domain. It systematically explores how systems can execute multiple tasks simultaneously, fundamentally improving speed, efficiency, and resource utilization. The core theme is the detailed exposition of PDC principles, architectures, and applications, starting with the motivations for parallelism and modifications to the traditional von Neumann model. It offers a deep dive into parallel hardware like SIMD and MIMD systems, advanced architectures such as CMPs and GPUs, and crucial concepts like cache coherence and OpenCL programming. The book then transitions to distributed computing, covering critical areas like communication models, synchronization, deadlock handling, and distributed file systems and shared memory. With its structured five-unit approach, real-world applications, and problem-solving exercises, this resource is designed to equip a broad target audience—including students, researchers, and professionals—with the necessary knowledge to design and implement efficient, scalable systems. Mastering the concepts presented herein will be instrumental in shaping the future of high-performance computing.

Salient Features:

• Fundamental Architectures: Provides comprehensive coverage of parallel hardware, including Flynn’s taxonomy (SIMD/MIMD), cache coherence, and the evolution of modern architectures like CMPs and GPUs.

• Advanced Programming Models: Detailed exploration of key models of parallelism such as the PRAM and CTA models, alongside an essential introduction to OpenCL for heterogeneous parallel computing.

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• Interconnection Networks: Focuses on the crucial role of interconnection networks in parallel and distributed systems. It discusses both static and dynamic approaches to ensure high-speed and efficient communication among all processors.

• Distributed Communication: Covers essential goals, design issues, and models like the Client-Server Model. Includes in-depth topics such as Remote Procedure Calls (RPC) and Group Communication mechanisms.

• Synchronization & Control: Offers an in-depth analysis of synchronization algorithms, deadlock handling, and distributed scheduling techniques for effective resource and process management in multi-node systems.

• Memory Management Systems: Dedicated units on Distributed File Systems (DFS) design, implementation, and an introduction to shared memory consistency models, including a MACH system case study.

• Performance Optimization: Addresses practical considerations for performance, including floating-point precision, parallel reduction techniques, and managing common caveats like overhead and over-parallelization.

• Real-World Applications: Explores the wide scope of PDC, with applications in scientific simulations, AI, big data analytics, bioinformatics, and commercial systems like web and database services.

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Table Of Contents

- Introduction to Parallel Computing
- Architectures and Programming
- Communication in Distributed Computing
- Synchronization and Process in Distributed System
- Distributed File Systems and Shared Memory

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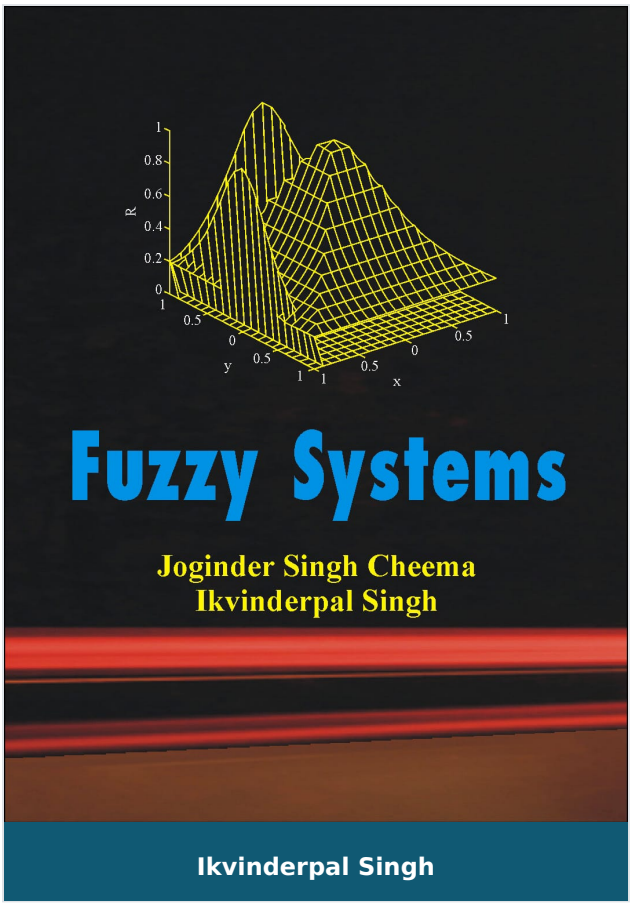
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Fuzzy Systems

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-80016-49-8
ISBN 10 :	9380016492
E-ISBN 13 :	978-93-80016-49-8
Edition :	1
Pages :	492
Type of book :	Physical
Year :	2015
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

This book is meant for a wide range of readers, especially college and university students wishing to learn basic as well as advanced processes and techniques in Fuzzy systems. It can also be meant for programmers who may be involved in programming based on the Fuzzy system applications. Modern aspects of fuzzy systems have been introduced from the first principles and discussed in an easy manner. So that a beginner can grasp the concepts of Fuzzy logic, fuzzy sets, fuzzy relations, fuzzy reasoning, fuzzy probability, fuzzy expert systems etc. each chapter contains solved example problems and exercise problems.

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Table Of Contents

- Introduction to Fuzzy System
- Fuzzy Logic
- Classical Sets and Fuzzy Sets
- Fuzzy Relations, Fuzzy Graphs and Fuzzy Arithmetic
- Fuzzy If-then Rules
- Applications of Fuzzy Logic
- Neuro-Fuzzy Systems
- Genetic Algorithm
- Fuzzy Logic and Probability Theory
- Fuzzy Logic and Probability Theory
- Fuzzy Model Identification
- Fuzzy Logic in Database and Information Systems
- Fuzzy Logic and Artificial Intelligence
- Fuzzy Logic and Pattern Recognition

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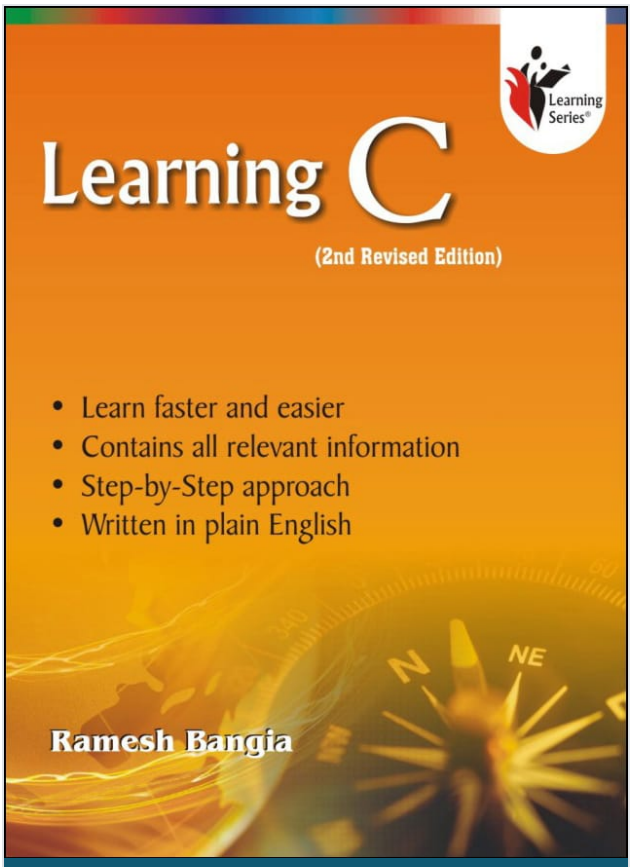
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Ramesh Bangia

Learning C

Author :	Ramesh Bangia
ISBN 13 :	978-81-87522-54-6
ISBN 10 :	8187522542
E-ISBN 13 :	978-81-87522-54-6
Edition :	2
Pages :	192
Type of book :	Physical
Year :	2011
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 225.00
Categories :	Book Store, Learning Series, BASIC COMPUTER BOOKS
Condition Type :	New
Country Origin :	India

Product Description

Learning of a software is both easy and difficult. It depends upon 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 realise how difficult it is to master it. C 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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Table Of Contents

- Introduction to C
- Structures in C
- Functions and Pointers in C
- Arrays in C
- Strings in C
- Input Output Operations in C
- Library Functions in C
- Unions Stacks, Links and Queues
- File Processing and Pre Processor Directives
- Turbo C
- Projects in C
- Questions

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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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A Glance over Android with Kotlin

Author :	Swati Saxena
ISBN 13 :	978-93-86173-81-2
ISBN 10 :	9386173816
E-ISBN 13 :	978-93-86173-81-2
Edition :	First
Pages :	296
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Emerging Technologies, Book Store
Condition Type :	New
Country Origin :	India

Product Description

"A Glance over Android with Kotlin" covers all aspects of Android application development in an easy-to-understand approach with examples. Each topic has been developed from the basic concepts.

This book focuses on all the necessary topics of kotlin and java also. It covers all the topics of Android development, for example:

How to design user interface by using Views?

How to persistently store data by using content providers?

How to design mobile applications displaying pictures and menus by using Views?

How to develop Android mobile application for sending messages and e-mail, how to work with location services and maps?

How to run background services in the mobile application?

How to develop applications supporting audio, video and camera of mobile device, etc?

Use of wi-fi sensor and Bluetooth.

NDK, NFC support and telephony service.

All Android widgets and SQL Lite.

With a Complete overview of OOPs this book make the readers familiar with Android development using Kotlin language.

This book is perfect choice for fresher and experienced Android developers who want to learn more about Android development with alternative JVM language.

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Table Of Contents

- Need of Mobile Apps
- Introduction to Android
- Deep in Android stack
- Java for Android
- Installing the Android SDK and running on Eclipse
- Eclipse vs Android Studio
- Android Divices
- Android Studio
- Kotlin for Android
- Add Kotlin plug-in Android Studio
- Ingredients of Android Application
- Android Component
- User Interface and Navigation
- Notification
- View-Android Widget
- Core Topics
- Thread
- Drawing 2D and 3D Graphics
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- Location Based Services and Google Maps
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- Android Native Development Kit
- Ads
- Up to the minute

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Swati Saxena, MCA, OCJP (Oracle Certified java Professional) and ADST. She is author of many computer book. Her name is well known in computer education as she is expert in java programming and coding and having in-depth knowledge of subject and very vast experience in developing and training. Her knowledge and teaching is always praised country- wide. The alumnus of her, are well placed in reputed organization all over India.

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