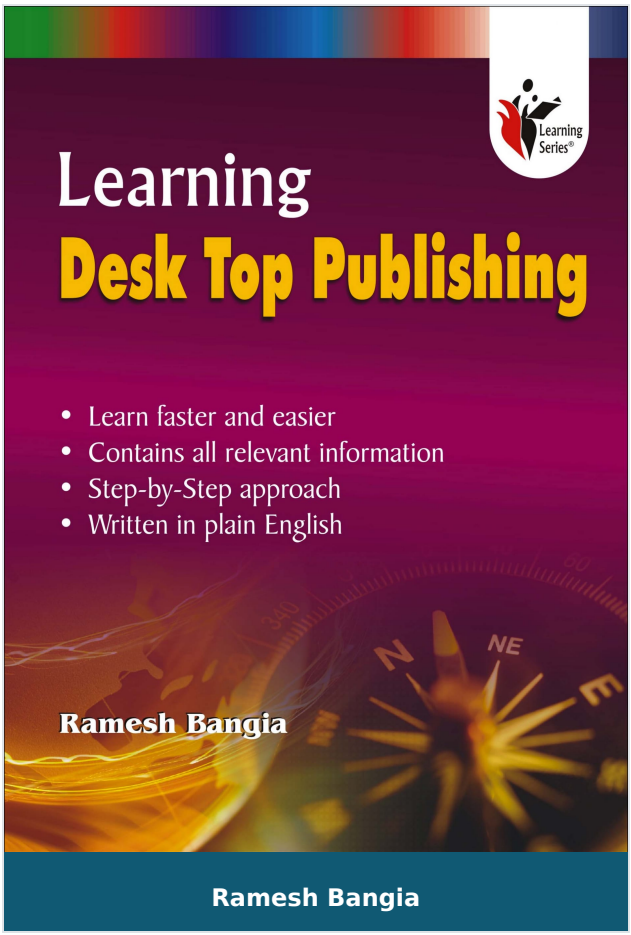


Learning Desk Top Publishing

Author :	Ramesh Bangia
ISBN 13 :	978-93-81068-43-4
ISBN 10 :	9381068437
E-ISBN 13 :	978-93-81068-43-4
Edition :	Second
Pages :	312
Type of book :	Physical
Year :	2016
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 225.00
Categories :	Computer Books - English, Book Store, Learning Series, Basic Computer Books
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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

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

Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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

Table Of Contents

- Introduction to Adobe Photoshop CS 5
- Introduction to CorelDraw X5
- Introduction to Flash CS 5
- Introduction to Page Maker 7.0
- Introduction to Illustrator CS 5
- Questions

Author

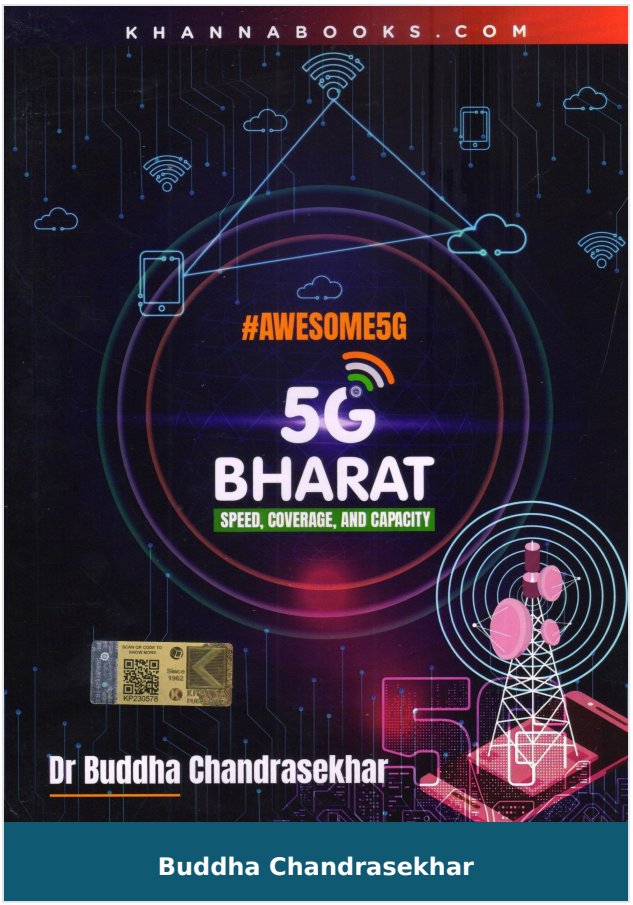
Ramesh Bangia

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.

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



Buddha Chandrasekhar

#Awesome5G- 5G Bharat

Author :	Buddha Chandrasekhar
ISBN 13 :	978-93-55382-89-4
ISBN 10 :	9355382898
E-ISBN 13 :	978-93-55382-89-4
Edition :	1
Pages :	92
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 300.00
Categories :	General Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

#Awesome5G- 5G Bharat Speed, Cover, and Capacity. Experience the potential of 5g to revolutionize education, skill development, and job creation while empowering farmers, healthcare, Railways, BFSI and promoting social inclusion. Discover the transformative power of 5G in reshaping India’s economic landscape and empowering its diverse communities.

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

Table Of Contents

- Awesome 5G- Bharat and 5G
- Economic Impacts of 5G in Bharat
- 5G to Revolutionize Education and Learning in Bharat
- The potential for 5G to drive skill Development in Bharat
- Skilling Bharat Youth Using 5G
- 5G and innovation in Bharat
- 5G and One District one Product
- Millions of job Creation in Bharat Using 5G Technologies
- How 5G ca Empower Farmers, Women Self-help Groups In Bharat
- How 5G Can Empower Cooperative Sector and Cooperative Societies in Bharat
- Social Inclusion Using 5G
- How 5G can Empower healthcare Services in Bharat
- How 5G can Empower Bharat Railways
- How 5G Can Empower Banking, Financial Services and Insurance.

Author

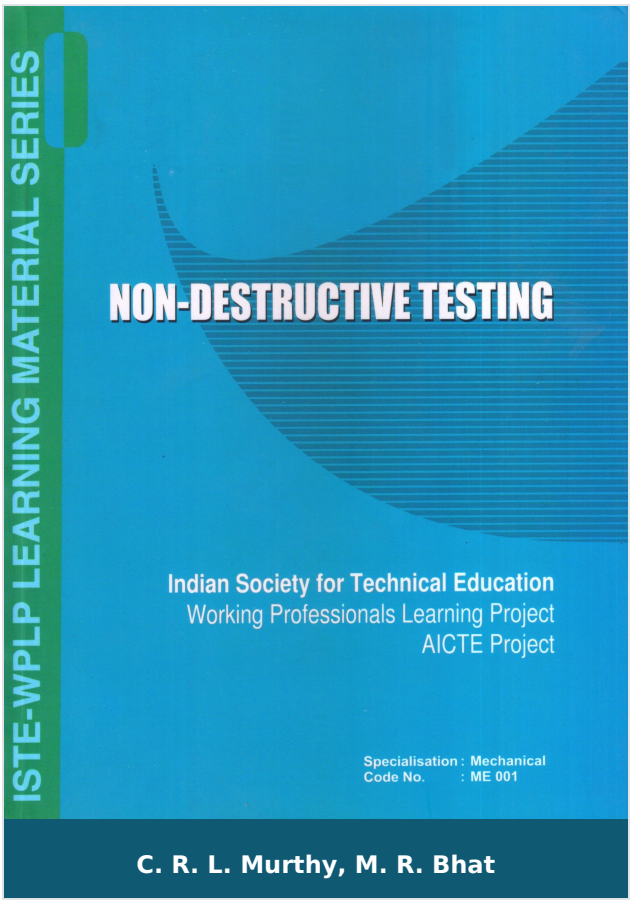
Buddha Chandrasekhar

Dr. Buddha Chandrasekhar

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



Non-Destructive Testing

Author :	C. R. L. Murthy, M. R. Bhat
ISBN 13 :	978-93-55386-29-8
ISBN 10 :	935538629X
E-ISBN 13 :	978-93-55386-29-8
Edition :	1
Pages :	224
Type of book :	Physical
Year :	2007
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 325.00
Categories :	Civil Engineering, Book Store, ISTE Series
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

Quality, Reliability and Structural Integrity Evaluation have been the key words for a Safe world. Non-invasive industrial diagnostics though have been in practice through intuitive methods since times immemorial, the scientific formalization of the term Nondestructive Testing (NDT) which is synonymously used with Nondestructive Evaluation (NDE) and Nondestructive Inspection (NDI) is only a few centuries old. With the evolving needs of the industry the Science and Technology of NDE has lead to tremendous Research and Development efforts and standardization of testing techniques to meet these ever changing requirements. In fact, the basic concept of the subject itself has taken a transformation and brought forth a newer title Structural Health Monitoring (SHM) and Smart Structures hand in hand with the changing concepts of design and discovery of newer materials to achieve higher levels of safety, quality and reliability via real time diagnosis and implementation of healing strategies.

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

Table Of Contents

- FOREWORD
- PREFACE
- SECTION-I INTRODUCTION
- NDT & E- ITS Significance
- SECTION II General and Simple Methods
- Liquid Penetrant Testing
- Visual Inspection
- Leak Testing
- SECTION III Magnetic and Electro Magnetic Methods
- Radiography
- Real -Time Radiography
- Computed Tomography
- Magnetic Particle Testing
- Eddy Current Testing
- Thermal Inspection
- SECTION IV Acoustic Methods
- Ultrasonic Testing
- Acoustic Emission Testing
- SECTION V Other techniques
- Microwave Inspection
- Shearography,
- Bibliography

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

Author

C. R. L. Murthy

Prof. C. R. L. Murthy Dr.

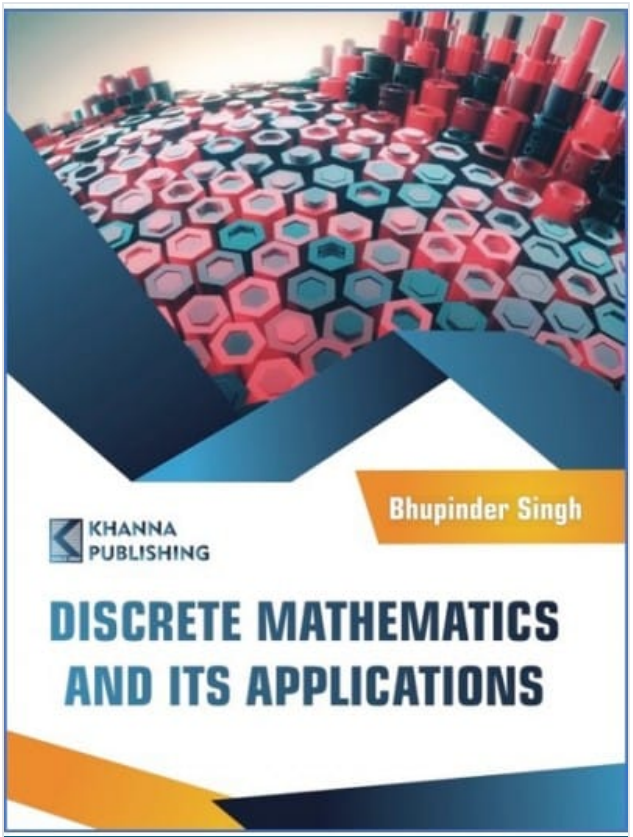
M. R. Bhat

Dr. M. R. Bhat

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



Bhupinder Singh

Discrete Mathematics and its Applications

Author :	Bhupinder Singh
ISBN 13 :	978-81-87325-24-5
ISBN 10 :	8187325240
E-ISBN 13 :	978-81-87325-24-5
Edition :	1
Pages :	556
Type of book :	Physical
Year :	2020
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	Applied science & Humanities, Book Store, Applied Sciences & Humanities
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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

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

Product Description

The book is designed for a one semester course in discrete mathematics for B.E. (Computer Science and Engineering), B.E. (Information Technology), MCA and BCA students. It covers syllabus of the most Indian universities. Keeping this in mind the contents of the books are incorporated accordingly. The discipline of mathematics requires working of problems to enhance the understanding. Therefore, numbers problems are appended at the end of each chapter. Solutions are also provided to these problems. This has been divided into 15 chapters. In spite of my best care, it is possible that some errors, printing mistakes etc., might have crept in. I shall be thankful if the same is brought to my notice. Suggestions for further improvement of the book by readers will be highly appreciated.

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

Table Of Contents

- Set Theory
- Mathematical Induction
- Relations
- Functions
- Combinatorial Analysis
- Graph Theory
- Planar Graphs, Colorations
- Trees
- Algebraic Systems
- Posets and Lattices
- Propositional Logic
- Boolean Algebra
- Finite State Machine
- Recurrence Relations
- Generating Functions

Author

Bhupinder Singh

Bhupinder Singh Bhupindra Singh Namadhari, Senior Lecturer, Computer Science and Engineering, Punjab Engineering College, Chandigarh, got his B.sc. (Electronics & Communication). From B.I.T. Mesra, Ranchi and M.E. from Devi Ahialaya Vishwa Vidalaya, Indore. He joined as lecturer at corps of Singals, Minstry of Defence and worked from May, 1980 to Jan, 91. He joined as a lecturer at Punjab Engineering College, Chandigarh and selected to the post of Assistant Professor in Department of Computer Science &

Khanna Publishing House

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

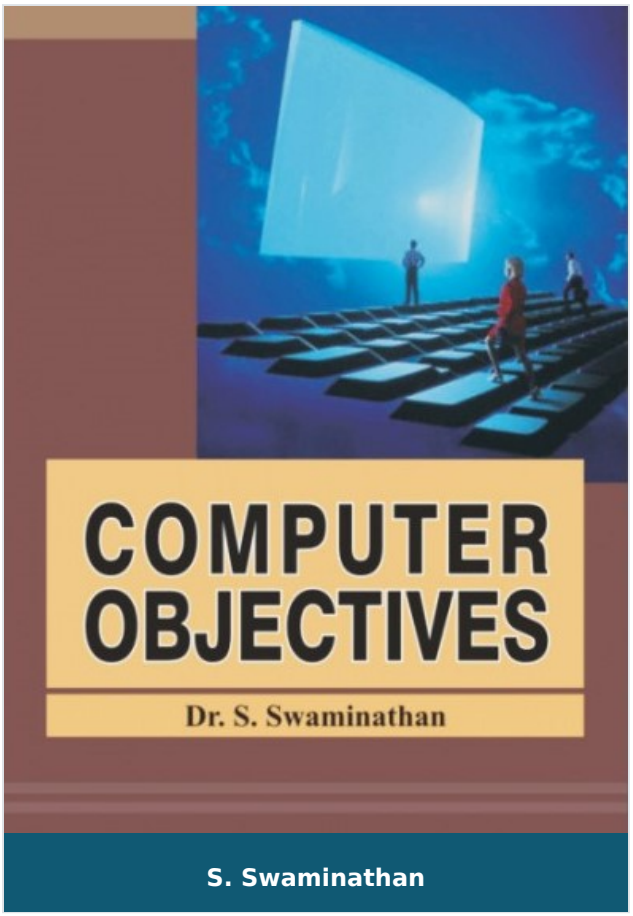
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Engineering at R.E.C. Hamirpur. He was reverted back to Punjab Engineering College in Feb' 99. He is life member of the following societies: M.I.E.T.E, M.I.E., C.S.I, He was invited by Pacific Telecommunications Council-97 to act as a Chairperson in the field of Cyptography at Honululu, Hawaii. He has published more than 30 research papers in the field of Cryptography, Artificial Intelligence, Vedic Mathematics in National/Internal Journal/Conferences. His research work in the field of "Computer Implementation of Vedic Mathematics Sutra" has been considered equivalent to Ph.D. in engineering by Dr. A.K. Ramani of University Putra Malaysia (More than 100 research papers to his credit). and Dr. P.K. Chande, Director, SGSITS Indore (More than 100 research papers to his credit) Bhupindra Singh has authored nine books in the field of Digital Electronics, Microprocessor, Cobol Programming and Microcontrollers.

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



S. Swaminathan

Computer Objectives

Author :	S. Swaminathan
ISBN 13 :	978-81-90675-88-8
ISBN 10 :	8190675885
E-ISBN 13 :	978-81-90675-88-8
Edition :	1
Pages :	406
Type of book :	Physical
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Objective Type Books, 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 has originated from the fact that students who are preparing for various different examinations like GATE, BARC, NTPC, ONGC, HAL,C-DOT,IOCL etc., have to refer to many different books for good and conceptual objective questions in Computer Science & Eng. stream keeping above examinations in mind the book has been organized to provide students the best.

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

Table Of Contents

- Digital
- Computer Architecture
- Operating Systems
- Data Structures
- Microprocessor
- Automata Theory
- Computer Networks
- Compilers
- DBMS
- C Language
- Object Oriented Programming with C++
- Probability Theory
- Discrete Mathematics
- Matrix Algebra
- Combinatorics
- Numerical Analysis
- Graph Theory
- Gate Papers with Solutions

Author

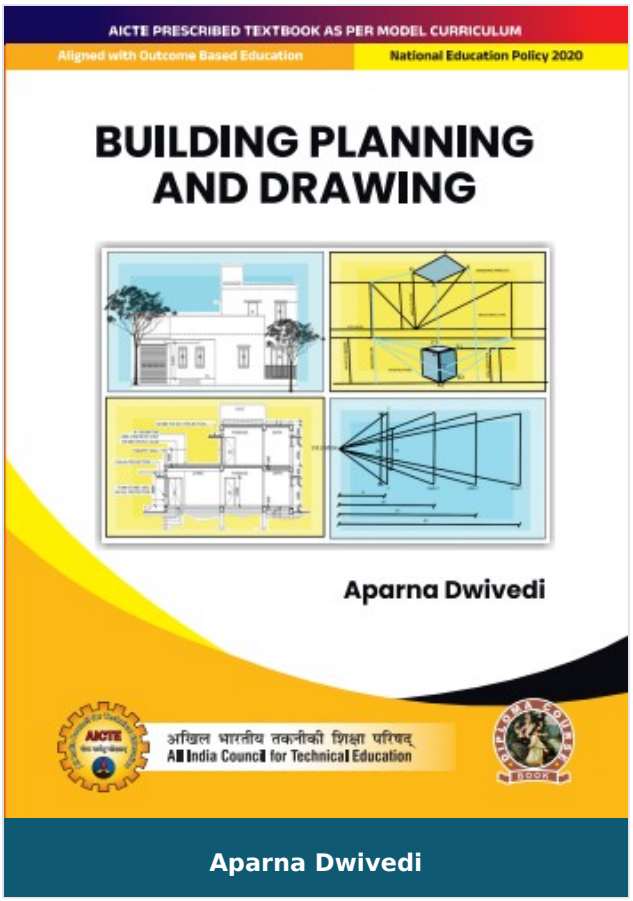
S. Swaminathan

S. Swaminathan

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



Building Planning and Drawing

Author :	Aparna Dwivedi
ISBN 13 :	978-93-55384-37-9
ISBN 10 :	9355384378
E-ISBN 13 :	978-93-55384-37-9
Edition :	First
Pages :	144
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 284.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Building Planning and Drawing

Building Planning and Drawing will be a very useful book for Civil Engineering and Building Industry. The focus of this book is the foundation of building design and understand the building vocabulary along with the process to approve plans and also writing specifications and Estimates. Different types of lines, types of scale, principles of planning for Residential and public building and the book also gives examples of line plans of residential building and public buildings like – school building, primary health Centre, restaurant, bank, post office, hostel, Function Hall and Library. Detailed drawings of load bearing structure and Framed

S

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.

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

- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

Solved and unsolved problems including numerical examples are solved with systematic steps.

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

Table Of Contents

- TABLE OF CONTENT
- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Conventions and Symbols
- Planning of Building
- Drawing of a Load Bearing Structure
- Drawing of Framed Structure
- Perspective Drawing
- CO and PO Attainment Table
- Index

Author

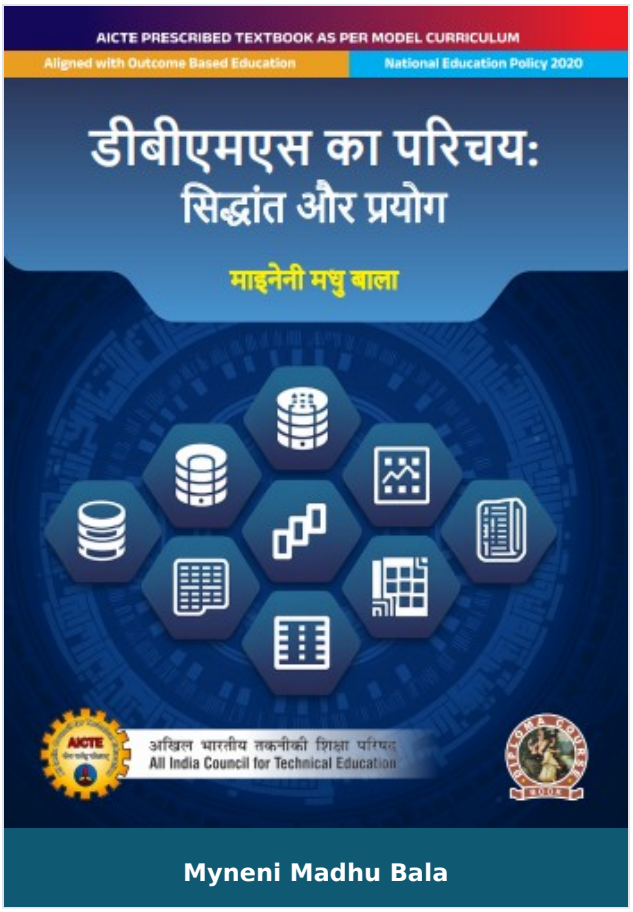
Aparna Dwivedi

Dr. Aparna Dwivedi Assistant Professor Sir J.J. College of Architecture Mumbai-400001, Maharashtra

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



Introduction to DBMS: Theory & Practicals

Author :	Myneni Madhu Bala
ISBN 13 :	978-93-55385-05-5
ISBN 10 :	9355385056
E-ISBN 13 :	978-93-55385-05-5
Edition :	First
Pages :	192
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Introduction to DBMS: Theory & Practicals

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

Author

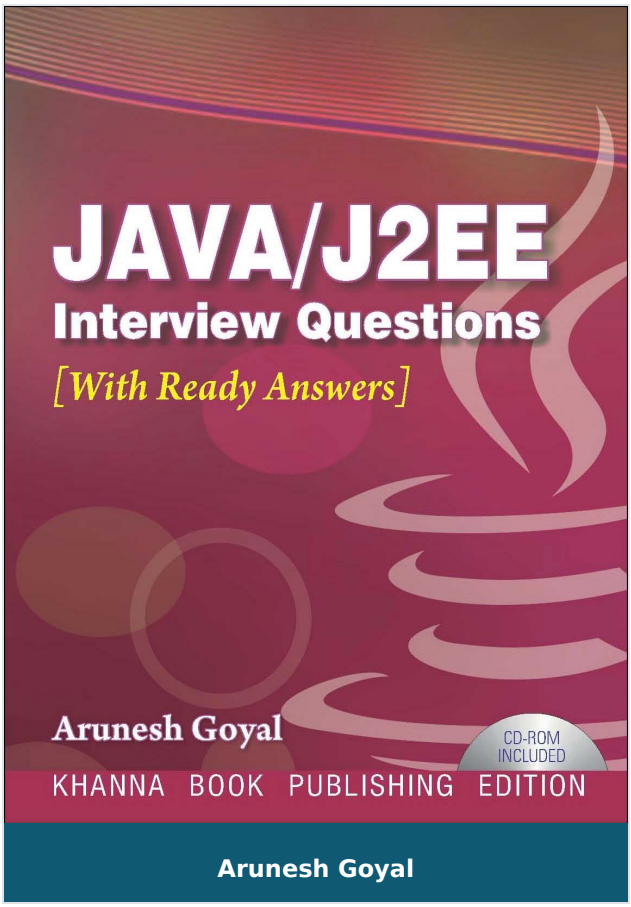
Myneni Madhu Bala

Dr. Myneni Madhu Bala Professor, Department of Computer Science Engineering, Institute of Aeronautical Engineering , Telangana

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



Interview Questions With JAVA/J2EE

Author :	Arunesh Goyal
ISBN 13 :	978-93-81068-84-7
ISBN 10 :	9381068844
E-ISBN 13 :	978-93-81068-84-7
Edition :	1
Pages :	240
Type of book :	Physical
Year :	2013
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 250.00
Categories :	Objective Type Books, 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

A total of six hundred relevant Interview Question have been included which augurs well for you in your pre-interview preparation. The "Project Management" Chapter discusses organizational behavior in its various facets such as motivation, leadership, ego less programming and stress. The " The software Development process" chapter makes you enact the roles of the various people involved in the SDLC such as the system analyst, the system designer.. Besides, it has many a multiple choice problems which you would very well enjoy trying your hand at. One hundred "Bonus Interview Question on C# ,Net" have been included and the various similarities and difference between C# and Java have been taken into account. The appendix contains the essence of the JAVA API package which includes fifty-nine libraries in all. The acronyms and the glossary sections are for your ready reference. They have been so designed as to enable you to understand much of the computer jargon associated not only with the Java environment, but in general also, in a big way. The accompanying CD-ROM includes some nerve raking software, sample code and other interview preparatory material.

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

Table Of Contents

- Core Java & OOP
- Applets
- Networking
- Threading
- Databases & JDBC
- Servlets & JSP
- EJB
- Struts
- Web Services & Xml
- Internationalization
- JNI
- Architecture (Including Design Patterns)
- UML
- Project Management
- The Software Development Process
- Bonus Interview Questions On C#, .Net
- Appendix : The Java API Package
- Acronyms
- Glossary
- About the CD-Rom

Author

Arunesh Goyal

Khanna Publishing House

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

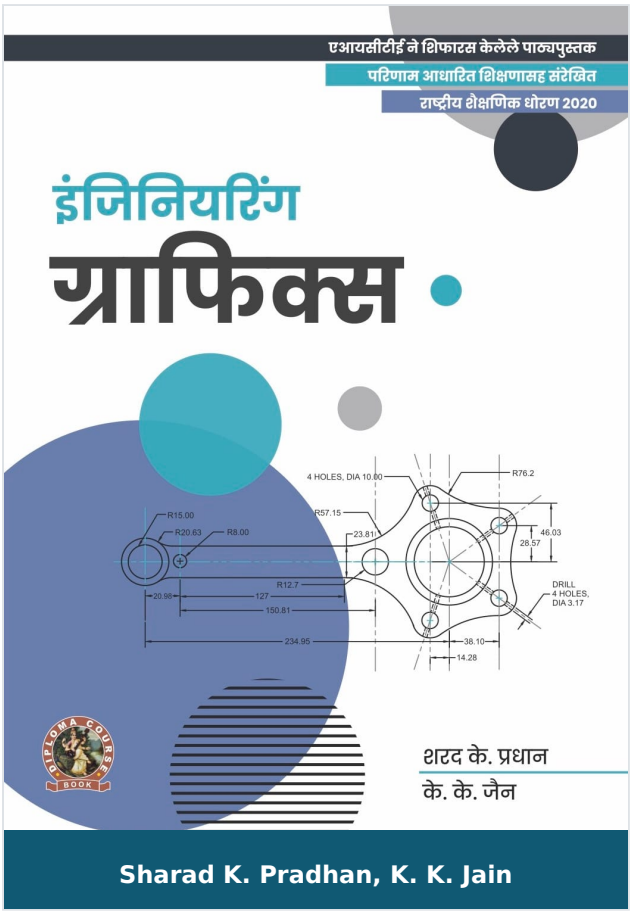
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Arunesh Goyal is a topper from University of Delhi {B.Sc. (H) Mathematics: Kirorimal College. North Campus}. He has been personally awarded by Mr. Amitabh Bachchan. He is also a First Division MCA degree holder from the same university. Besides, he has worked as Computer Analyst/Consultant at St. Stephen's Hospital, Delhi for more than 10 years. This underlines his extensive programming and systems development experience. Besides, he has worked on two projects related to intelligent databases with Comtech International Ltd., Noida. and the Times of India, New Delhi, respectively.

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



Engineering Graphics

Author :	Sharad K. Pradhan, K. K. Jain
ISBN 13 :	978-93-55380-04-3
ISBN 10 :	9355380046
E-ISBN 13 :	978-93-55380-04-3
Edition :	First
Pages :	284
Type of book :	Physical
Year :	2022
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
Categories :	AICTE Prescribed Textbooks, Marathi Books, Book Store, Ebooks, Applied Sciences & Humanities
Condition Type :	New
Country Origin :	India

Product Description

“ Engineering Graphics” is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

Book covers six topics- Basic Elements of drawing , Orthographic Projections, Isometric Projections, Free Hand Sketcher of Engineering Elements, Computer Aided Drafting Interface, Computer Aided Drafting. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

1. Content of the book is aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. In start of each unit learning outcomes are listed to make the student understand what is expected out of him/ her after completing that unit.

3. Book provides lots of recent information, interesting facts, Codes for E-resources, QR Code for use of ICT, projects, group discussion etc.

4. Student and teacher centric subject materials included in book with balanced and chronological manner.

5. Figures, tables and software screen shots are inserted to improve clarity of the topics.

6. Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.

7. Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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

8. Solved and unsolved problems including numerical examples are solved with systematic step.

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

Table Of Contents

- Foreword, Acknowledgement, Preface, Outcome Based Educations, Course Outcomes, Abbreviations and Symbols, List of Figures, List of tables Guidelines for Teachers, Guidelines for Students
- Basic Elements of Drawing
- Orthographic Projections
- Isometric Projections
- Free Hand Sketches of Engineering Elements
- Computer Aided Drafting Interface
- Computer Aided Drafting.

Author

Sharad K. Pradhan

Sharad K. Pradhan

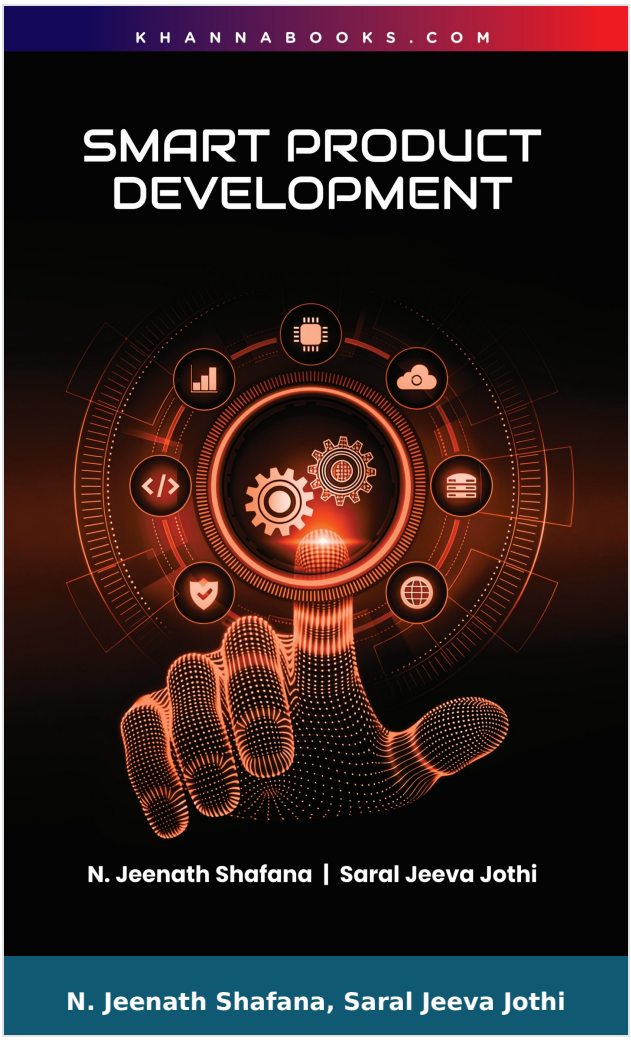
K. K. Jain

K. K. Jain

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



Smart Product Development

Author :	N. Jeenath Shafana, Saral Jeeva Jothi
ISBN 13 :	978-93-55384-34-8
ISBN 10 :	9355384343
E-ISBN 13 :	978-93-55384-34-8
Edition :	First
Pages :	132
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 198.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
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 is an indispensable resource for navigating the rapidly evolving landscape of smart technologies, where the integration of sensors and smart systems is pivotal for advancing functionality across a wide range of industries. Titled SMART PRODUCT DEVELOPMENT, this comprehensive guide is designed to equip its target audience—students, engineers, professionals, and technology enthusiasts—with the foundational knowledge and practical skills needed to master the complexities of modern connected devices.

The core purpose is to provide a deep, structured understanding of sensor devices—the eyes, ears, and nervous system of modern technology—their diverse applications, and their essential interfacing with Microcontroller Units (MCUs). The text begins by introducing fundamental sensor types, including piezoresistive, capacitive, and resonant sensors, detailing their design and real-world use in applications from wearable tech to autonomous vehicles.

Moving beyond hardware, the book thoroughly explores signal conditioning, digital conversion, and advanced control techniques such as state machines, fuzzy logic, and neural networks, showing how to integrate sensors into larger, reliable systems. Critical sections are dedicated to communication protocols (including wireless networks, RF sensing, and automotive standards) and the vital role of IEEE 1451 standards in ensuring system interoperability. Finally, the book connects theory to practice by examining real-world use cases in creating Smart Cities, covering applications in agriculture, health, disaster prevention, and water management, alongside the challenges of implementing AI and IoT at scale. This blend of theory, practical knowledge, and case studies makes it a crucial resource for aspiring engineers and industry experts.

Salient Features:

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

• Sensor Fundamentals: Provides comprehensive foundational insights into diverse sensor technologies, covering principles, classifications (active/passive), and detailed working mechanisms for types like piezoresistive and capacitive sensors.

• Microcontroller Interfacing: Focuses on how sensor data is processed, amplified, and conditioned for use, emphasizing Digital Conversion and the essential design considerations for effective MCU control in embedded systems.

• Advanced Control Logic: Explores modern automation and system behavior control using state machines, Fuzzy Logic systems for nuanced decision-making, and sensor control via Neural Networks.

• Communication Protocols: Deep dive into crucial standards for smart sensor connectivity, including wireless networks (Wi-Fi, Zigbee, Bluetooth), RF sensing, Telemetry, and specialized Automotive Protocols.

• Industry Standards: Details the architecture and benefits of the IEEE 1451 standards for smart sensors, ensuring necessary compatibility and interoperability between devices, control systems, and embedded technologies.

• IoT Case Studies: Presents transformative, real-world applications within the Smart Cities paradigm, covering sectors like smart agriculture, health, disaster prevention, and advanced water/waste management.

• AI/ML Integration: Discusses the challenges and solutions for developing AI and IoT systems at scale, covering predictive analytics, data quality, and the ethical considerations necessary for smart product success.

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

Table Of Contents

- Introduction to Sensor Devices
- Interfacing Sensor Information and MCU
- Control Techniques Standards
- Communication for Smart Sensors
- Smart Cities Uses Case

Author

N. Jeenath Shafana

N. Jeenath Shafana

Saral Jeeva Jothi

Saral Jeeva Jothi

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