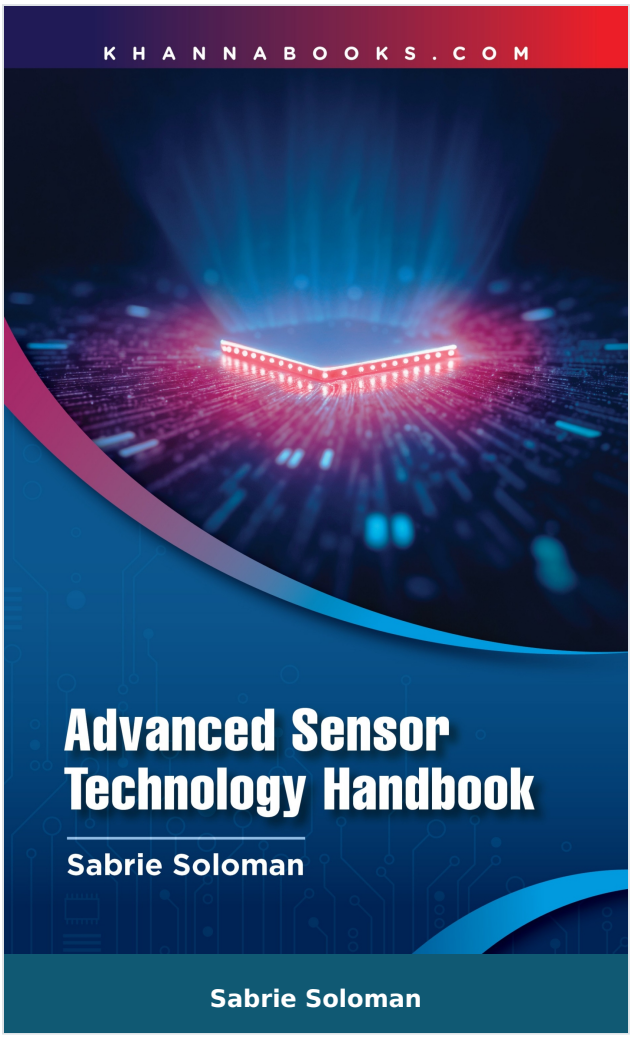


Advanced Sensor Technology Handbook

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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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- 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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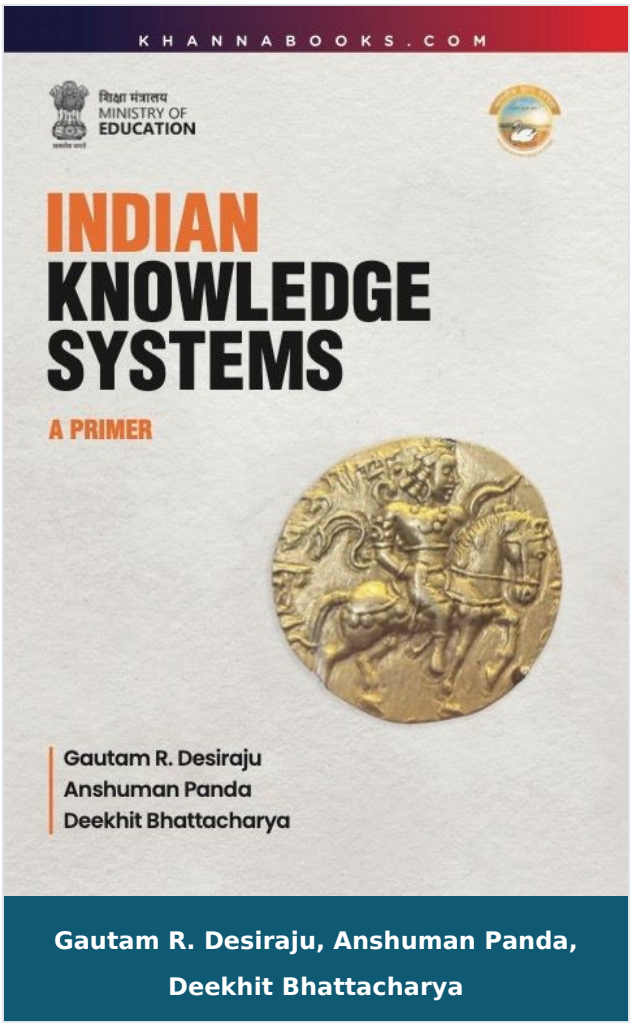
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Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya

Indian Knowledge System- A Primer

Author :	Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya
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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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- What is IKS?
- Bhartiya Civilizational Reawakening

Author

Gautam R. Desiraju

Gautam R. Desiraju

Anshuman Panda

Anshuman Panda

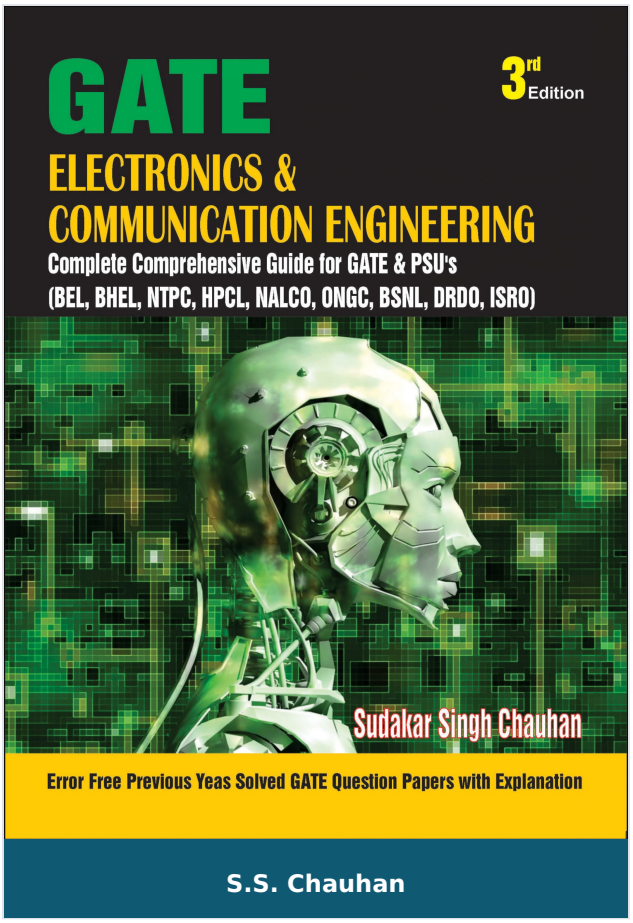
Deekhit Bhattacharya

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GATE Electronics & Communication Engineering

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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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- Model Test Paper-1
- Model Test Paper-2
- Model Test Paper-3
- Model Test Papre-4
- Model Test Paper-5

Author

S.S. Chauhan

S.S. Chauhan Sudakar Singh Chauhan is presently working as an Assistant Professor in the department of Electronics and Communication Engineering at NIT Kurukshetra,

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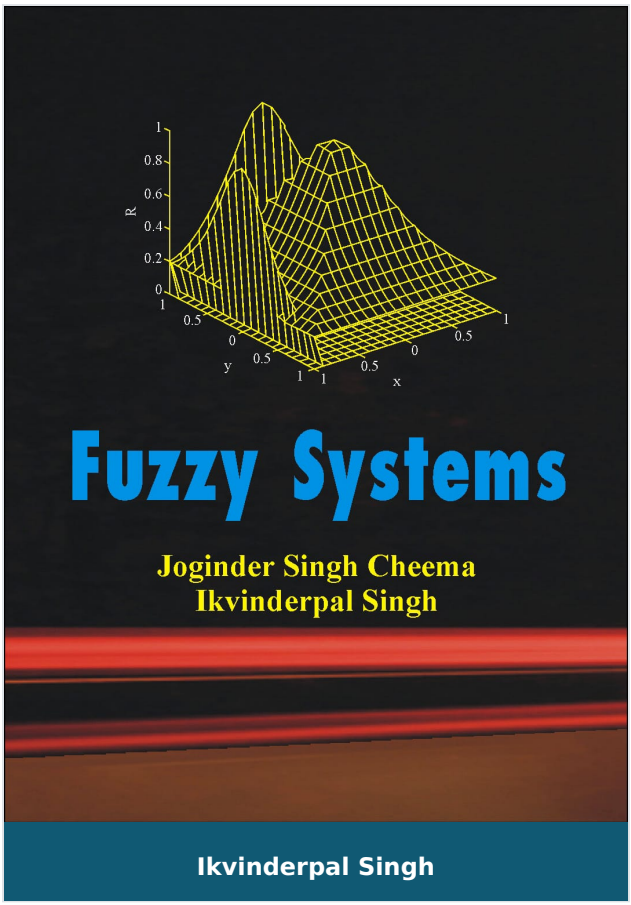
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Haryana, India. He worked in BSNL (BSNL_JTO) as a Switch Engineer and later on resigned so that he can contribute his knowledge & experience for the betterment of young generation. He was involved in GATE preparation classes and had taught several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

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Fuzzy Systems

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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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- 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

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

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A Glance over Android with Kotlin

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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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- Location Based Services and Google Maps
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- Text to Speech
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- Android Native Development Kit
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- Up to the minute

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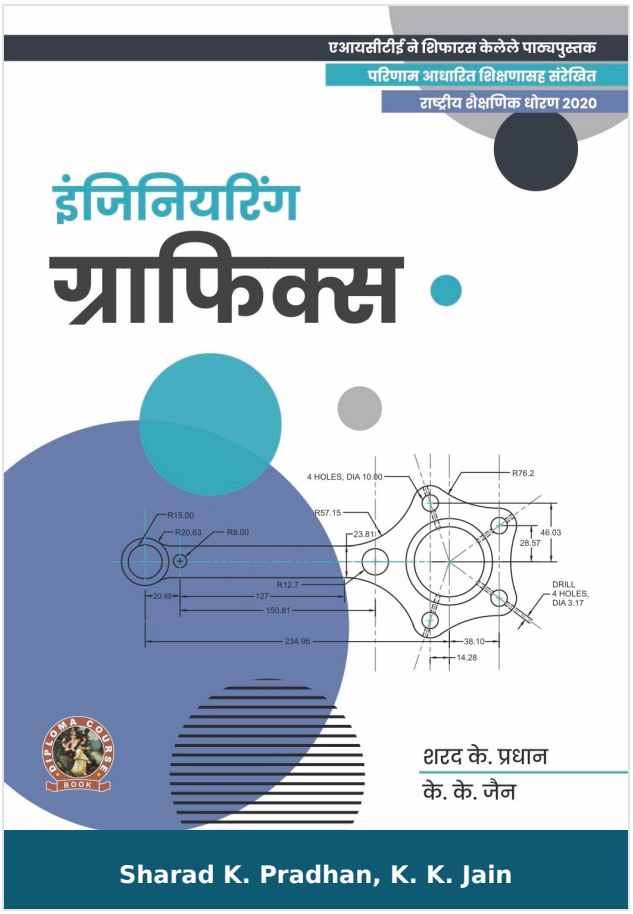
Swati Saxena

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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Engineering Graphics

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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.

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

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- Orthographic Projections
- Isometric Projections
- Free Hand Sketches of Engineering Elements
- Computer Aided Drafting Interface
- Computer Aided Drafting.

Author

Sharad K. Pradhan

Sharad K. Pradhan

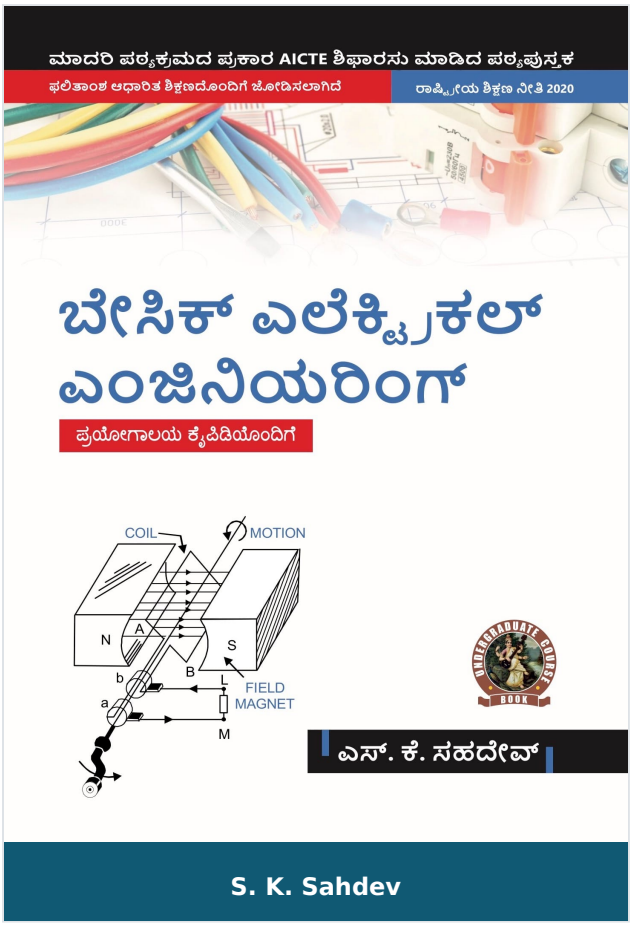
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Basic Electrical Engineering (with Lab Manual)

Author :	S. K. Sahdev
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Product Description

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

Salient Features:

1. DC Circuits
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3. Transformers
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5. Power Converters
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- Transformers
- Electrical Machines
- Power Converters
- Electrical Installations

Author

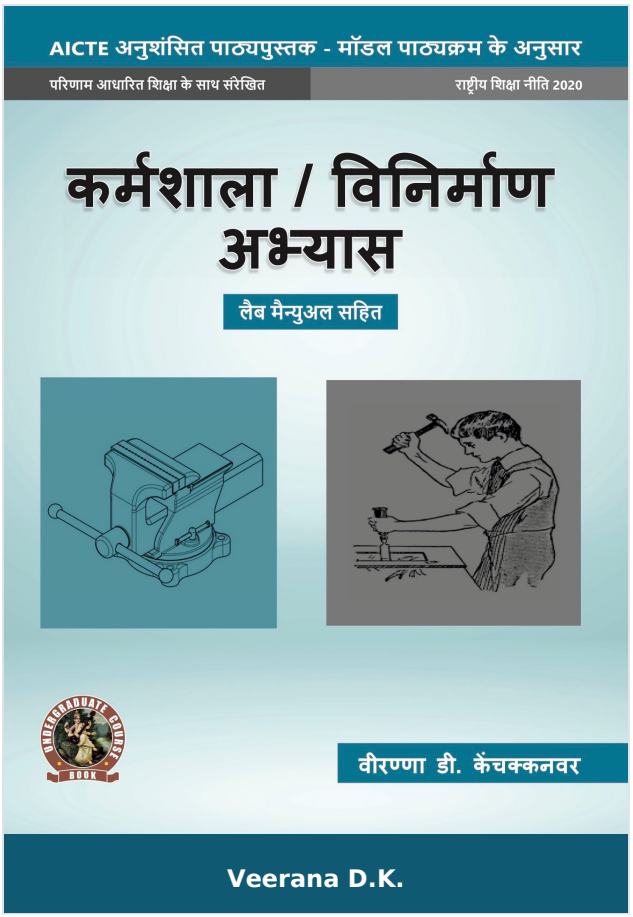
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Workshop / Manufacturing Practices (with Lab Manual)

Author :	Veerana D.K.
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Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations.

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4. Electrical & Electronic
5. Carpentry
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7. Metal casting
8. Welding (arc welding & gas welding), brazing

9. Laboratory experiments and models

10. Appendices

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- Acknowledgement
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- Manufacturing Methods
- CNC Machining, Additive manufacturing, Fitting
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- Electrical & Electronic
- Carpentry, Plastic moulding, glass cutting
- Metal casting, welding (arc welding & gas
- welding), brazing
- Part- B: Workshop Practice Laboratory
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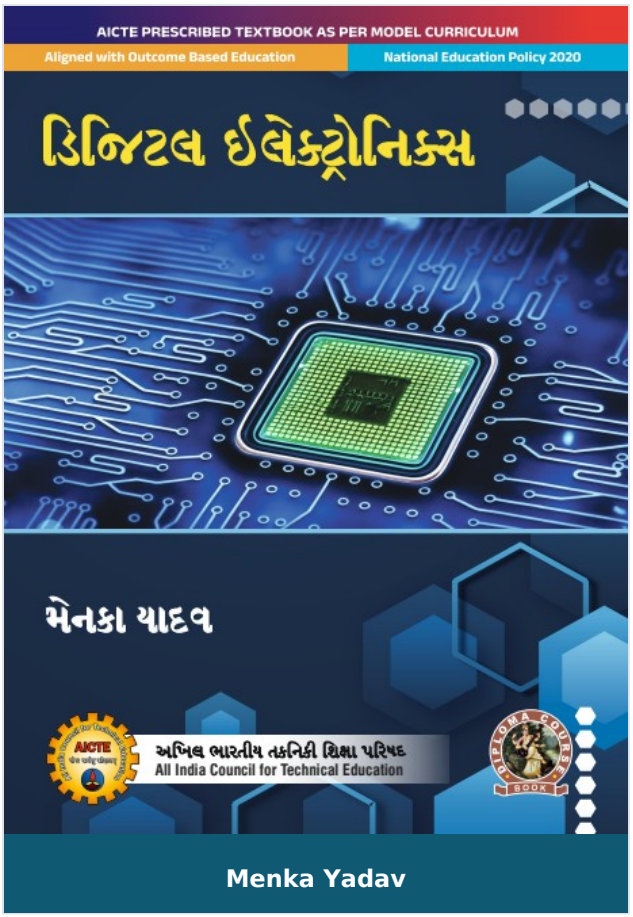
Veerana D.K.

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations. Salient Features: l Manufacturing Methods l CNC Machining, Additive manufacturing l Fitting operations & power tools l Electrical & Electronic l Carpentry l Plastic mounding, glass cutting l Metal casting l Welding (arc welding & gas welding), brazing l Laboratory experiments and models l Appendices l References

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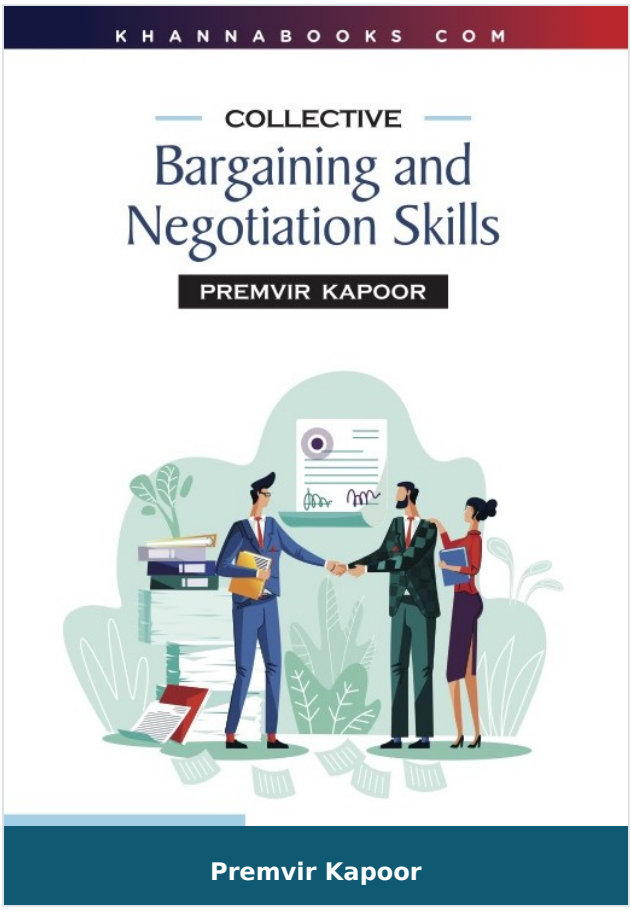
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Collective Bargaining And Negotiation Skills

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Product Description

Collective Bargaining And Negotiation Skills

Collective Bargaining and Negotiation Skills has globally become a much discussed issue with economic conditions continuing to be uncertain complexity of business increasing many bold, competitive pressures mounting organizations becoming flatter by each passing day, managers have a tough balancing act to do one side they have a challenge of managing the needs, aspirations and emotions of their people, on the other side they have to negotiate from every stakeholder , the very best for their organization collective bargaining and negotiate are two very important and much needed skills for todays managers. the book test provides the readers a unique resource for continuing self-development. The book aims to fulfill the need of management students and also for the practitioners as a reference manual to help them upgrade their knowledge and skills with the right attitude. Both students in an academic setting as well as management practitioners will benefit from the text.

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- Preface
- An Overview of Collective Bargaining
- Consideration in Collective Bargaining
- Conflict Management
- Issues and Trends in Collective Bargaining
- Negotiation Skills
- Negotiating A Contract
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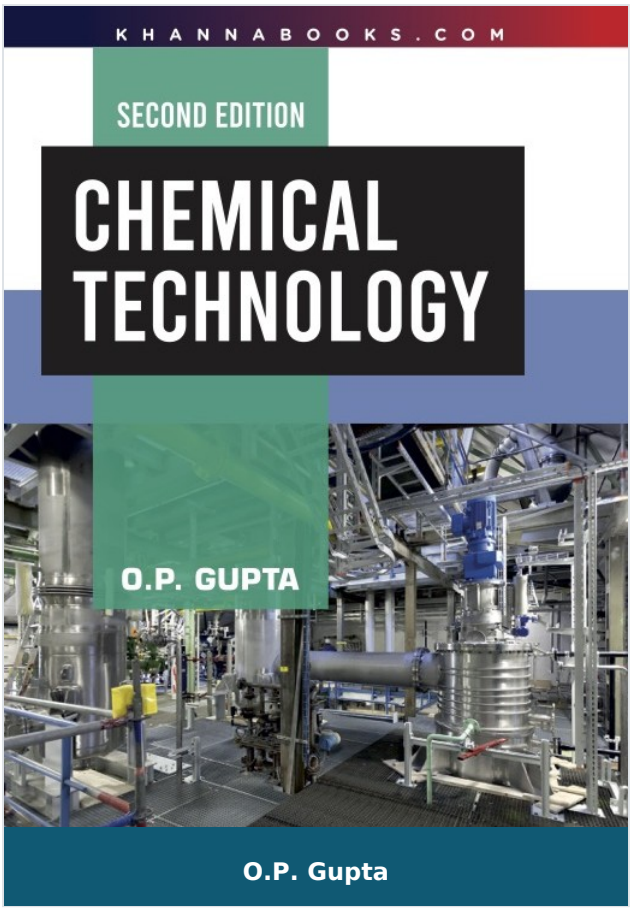
Premvir Kapoor

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Product Description

This book will be useful for degree & diploma Curriculum of Engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers(AMIE) and Indian Institute of chemical Engineers (AMIICHE) etc.

Salient Features of This Book

* Subject matter has been presented in simple, lucid & easy to understand language

* Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers.

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- Chapter-2: Acid industries: Sulphuric, Hydrochloric, Nitric and Phosphoric acids
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- Chapter-4: Fertilizers: Nitrogenous, phosphatic and potassic
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- Chapter-15: Multiple choice Questions & Answers on Chemical Process Technology

Author

O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees

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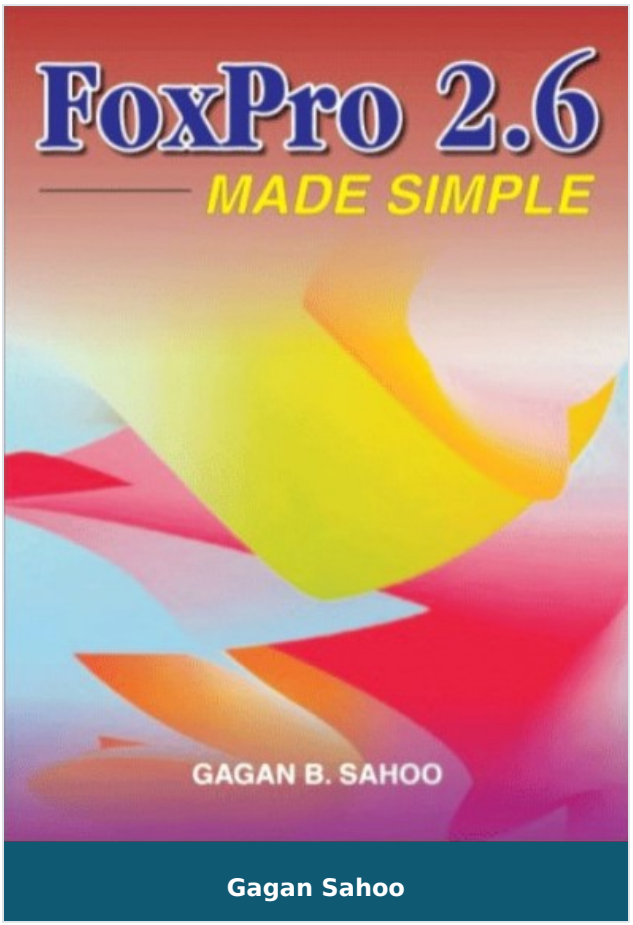
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(Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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Gagan Sahoo

FoxPro 2.6 Made Simple

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Product Description

FoxPro for windows is a program that runs on IBM and other IBM-compatible PCs and operates under microsoft windows. FoxPro for window is a database management system(DBMS) with which you can: Create and maintain a list of data called a table or database files, such as library list, member list, inventory, etc. Maintain any collection of information using FoxPro for MS-DOS and windows, sort and organize tables. Search for/retrieve information within a table. Generate reports, input forms, and mailing label from tables. Organize information in multiple tables and retrieve data simultaneously from any of the tables. Alter existing tables and arrange the structure.

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- Full Screen Data Editing
- Control Flow
- Environment Set Commands
- Windows Menus and Popups
- Reporting Through Programming
- Structural and Procedural Programming
- Event Trapping
- Case Studies Admission System
- Appendix

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Gagan Sahoo This well -organized and comprehensive book offers a detailed coverage on Visual Basic Programming concept. It contains a rich collection of examples, exercises and project based concepts. This book concentrates on the principles of good software engineering and stresses program clarity. without assuming and background knowlwdge of programming, this book teaches VB language using carefully graded approach. The book covers easy-to understand steps, from simple programs to sophisticated ones that demonstrate VBs power for programming development. Using this book you can create different application statring from desktop application; database Handling to Internet based programming. The book contains 100's source codes in different chapters in CD. He has more that 15 Years of experience in the computer field working as a software developer, director of software development. He is a well-known author of various computer books including, VB, C++, Java. Since last 10 years, he has lots of experience in different computer project works. He has written number of project books including Foxpro, C, C++, Vb, etc. He associates Mr. Arvind Kumar working as co-author in various technical projects in .NET technology. He has been Programming in various .NET project and tested so many code on Microsoft's .NET environment. His prime development of Beginner's Guide to VB, C# 2005 (with.NET 3.0), ASP.NET, VB.NET, etc. Which was written to fullfil the need and development guide for the students and developers.

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