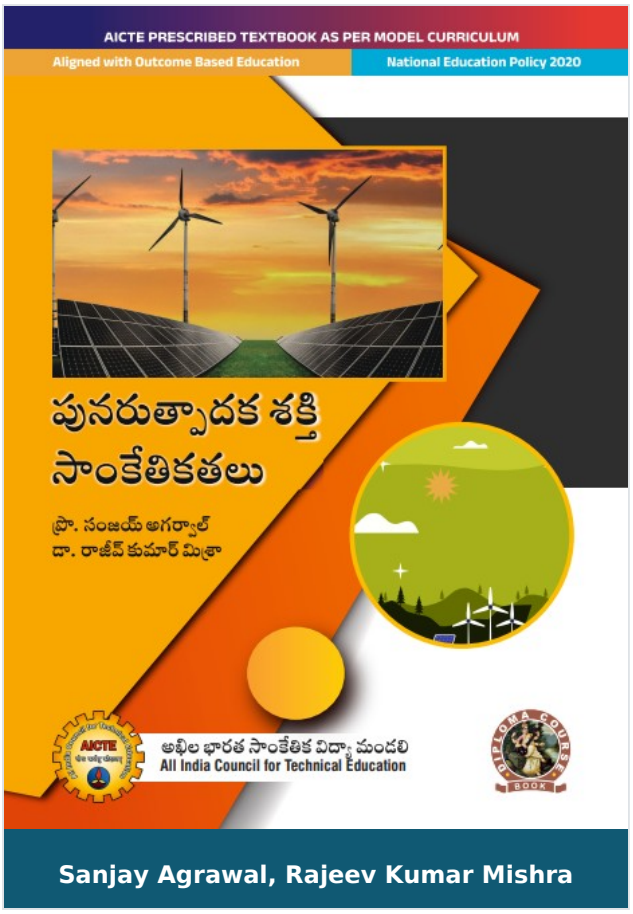

Renewable Energy Technologies

Author :	Sanjay Agrawal, Rajeev Kumar Mishra
ISBN 13 :	978-93-55385-74-1
ISBN 10 :	9355385749
E-ISBN 13 :	978-93-55385-74-1
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M.R.P :	Rs 498.00
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Product Description

Renewable Energy Technologies

The Book “Renewable Energy Technologies” is an up-to-date textbook based on the latest syllabus provided by AICTE. The book begins with the present status of conventional and renewable energy availability and consumption in India and World. It then goes on discussing different types of renewable energy resources like solar PV and concentrated solar power, wind power generation, hydropower plants and biomass-based power plants. Other renewable energy sources such as tidal energy, wave energy, OTEC, geothermal energy, hydrogen energy and fuel cell are also introduced. Practical based on the chapter is also provided at the of every chapter.

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

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- Large Wind Power Plants
- Small Wind Turbines
- Micro-Hydro Power Plants
- Biomass-Based Power Plants
- Other Renewable Energy Sources
- CO and PO Attainment Table

Author

Sanjay Agrawal

Prof. Sanjay Agrawal Vice Chancellor and Professor Department of Electrical Engineering, Swami Vivekanand Technical University, Bhilai, Chhattisgarh Dr.

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Rajeev Kumar Mishra

Dr. Rajeev Kumar Mishra Associate Professor, Department of Applied Sciences (Physics), Galgotias College of Engineering and Technology, Greater Noida, Uttar Pradesh

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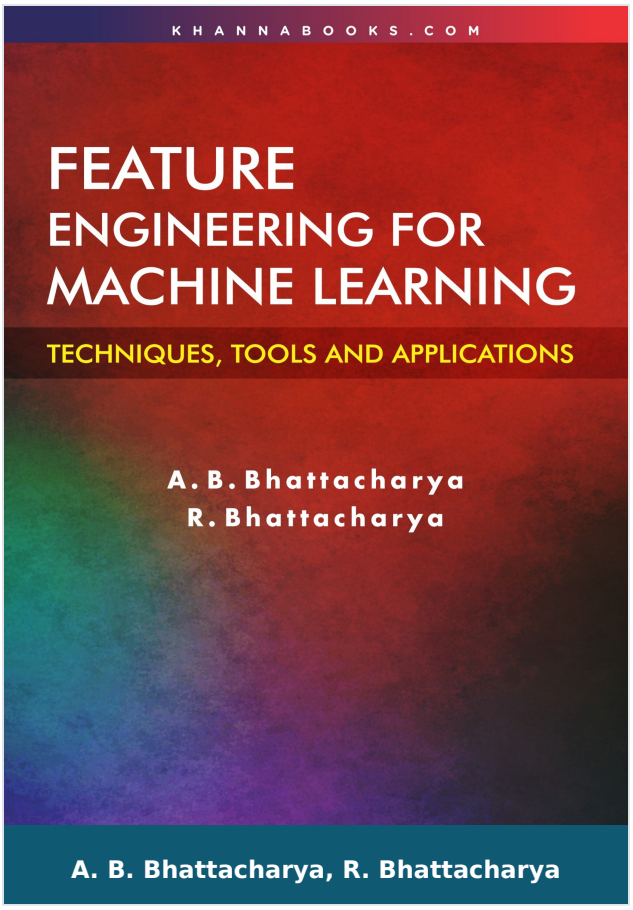

Feature Engineering for Machine Learning (Techniques, Tools and Applications)

Author :	A. B. Bhattacharya, R. Bhattacharya
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ISBN 10 :	9374541513
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Product Description

Feature Engineering for Machine Learning (Techniques, Tools and Applications)

Feature engineering is where machine learning success is truly built.

Algorithms get the spotlight, but the real competitive edge lies in how you shape your data. Feature Engineering for Machine Learning is your practical, no-nonsense guide to transforming raw data into powerful signals that unlock model performance, reliability, and insight.

Whether you're a data scientist, ML engineer, analyst, or student, this book takes you beyond theory into the craft of creating features that matter. You'll learn how to identify meaningful patterns, design robust transformations, handle messy real-world data, and systematically improve model outcomes.

Key Features

Through clear explanations, real examples, and actionable techniques, you'll discover how to:

- Turn raw data into predictive features
- Apply domain knowledge to engineer smarter signals
- Handle categorical, temporal, and high-dimensional data
- Avoid common pitfalls that sabotage model performance
- Build scalable, reproducible feature pipelines

Feature engineering isn’t just a step in the workflow, it's the foundation of great machine learning. Master it, and you don’t just build models… you build better decisions.

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- Preface
- Acknowledgement
- INTRODUCTION TO FEATURE ENGINEERING
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- FEATURE ENGINEERING TECHNIQUES
- FEATURE EXTRACTION VS. FEATURE SELECTION
- ADVANCED TOPICS AND CASE STUDIES

Author

A. B. Bhattacharya

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant

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contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

R. Bhattacharya

R. Bhattacharya

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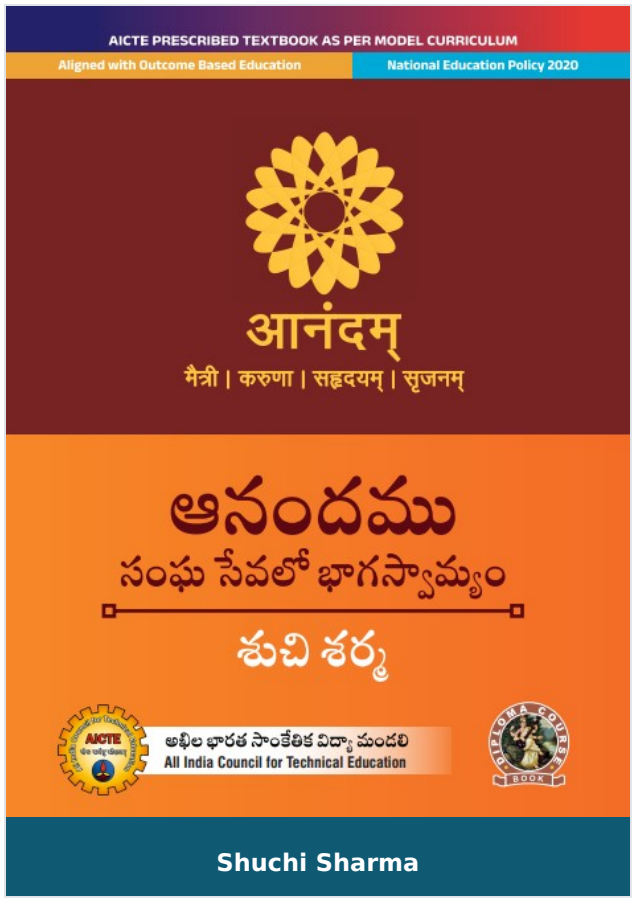

Aanandam An Act of Community Service

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Author

Shuchi Sharma

Dr. Shuchi Sharma, IAS (retd) Former Secretary Higher, Technical & Sanskrit Education, Government of Rajasthan

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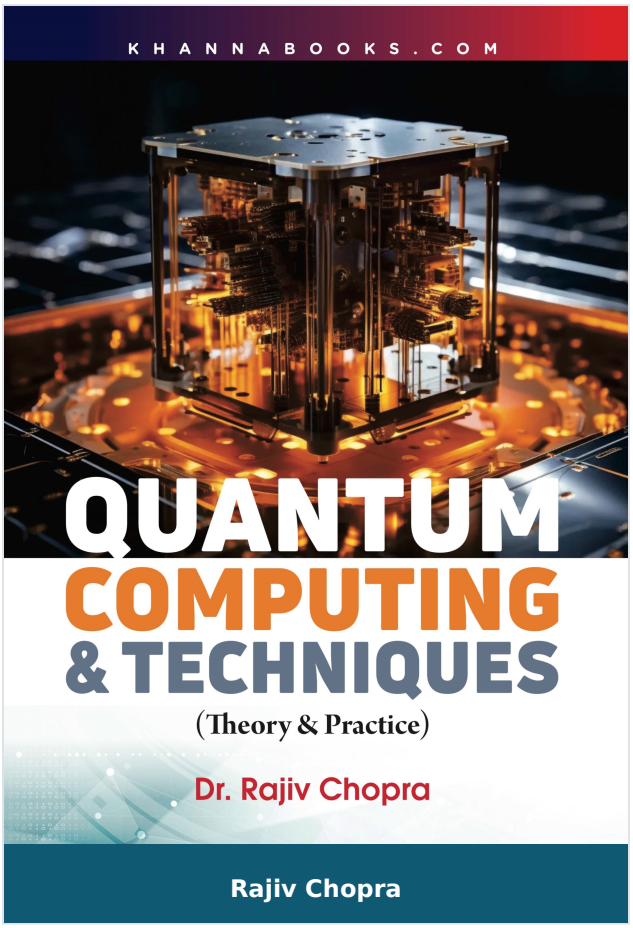

Quantum Computing & Techniques (Theory & Practice)

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E-ISBN 13 :	978-93-55384-23-2
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Product Description

QUANTUM COMPUTING & TECHNIQUES

(THEORY & PRACTICE)

1. A Valuable Resource: This well-regarded book is full of important information and is praised in the field of Quantum Computing.

2. Fun Learning: The book makes complex topics enjoyable, helping readers learn in a joyful way.

3. Bridging the Knowledge Gap: It helps readers go from not knowing much about Quantum Computing to understanding it well, breaking down difficult ideas.

4. Clear Understanding: It removes confusion and shines light on the topic, giving reader’s confidence in what they learn.

5. Simple and Clear: Despite its complex topic, the book is easy to understand and straightforward.

6. Course Friendly: The content is designed to match the study programs of many universities in India and beyond.

7. Thorough and Detailed: The book explains topics thoroughly, making sure everything is easy to grasp.

8. Curriculum- Aligned: It is aimed at B.E. /B. Tech. students in fields like Computer Science, IT, Electronic engineering, and more.

9. Research Gateway: This book is useful for students, teachers, and researchers opening doors for new ideas in quantum computing.

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Dive into the exciting world of quantum computing, where complex ideas become clear, and curiosity leads to deep understanding!

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- Math Foundation for Quantum Computing.
- Quantum Circuits Design.
- Quantum Algorithms.
- Computational Lower Bound Complexity for Quantum Circuits.
- Quantum Error Correction.
- Quantum Cryptography.
- Appendix:
- Experiments in Quantum Computing Lab. (using Python).
- Index

Author

Rajiv Chopra

Dr. Rajiv Chopra has a Doctorate in Computer Science from Banasthali VidyaPith University. The author is M. Tech. in Information Technology from GGSIPU, Delhi. He did BE (CSE) from SDM College of Engg. and Technology, Dharwad and MIT from MAHE. He is working as an Associate Professor in CSE Department at Guru Tegh Bahadur Institute of Information Technology, GGSIPU Delhi. As an educator he has contributed to 21 research publications in Refereed, cited International Conferences and International Journals and attended 21 conferences, workshops, FDPs and seminars. He is a prolific author with 26 Text and Reference books to his credit,for B. Tech. (CSE/IT), M. Tech. (CSE/IT), BCA, MCA and other courses of different Universities of India.

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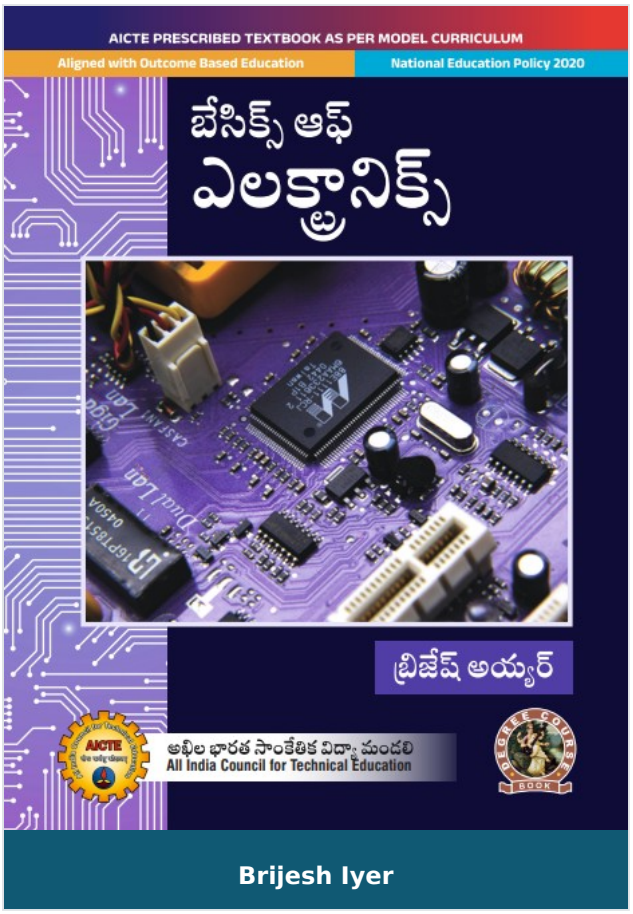

Basic of Electronics

Author :	Brijesh Iyer
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Author

Brijesh Iyer

Dr. Brijesh Iyer Professor, Assistant Professor (Sel. Gr.) Department of E & TC Engineering

Dr. Babasaheb Ambedkar Technological University, Lonere Maharashtra

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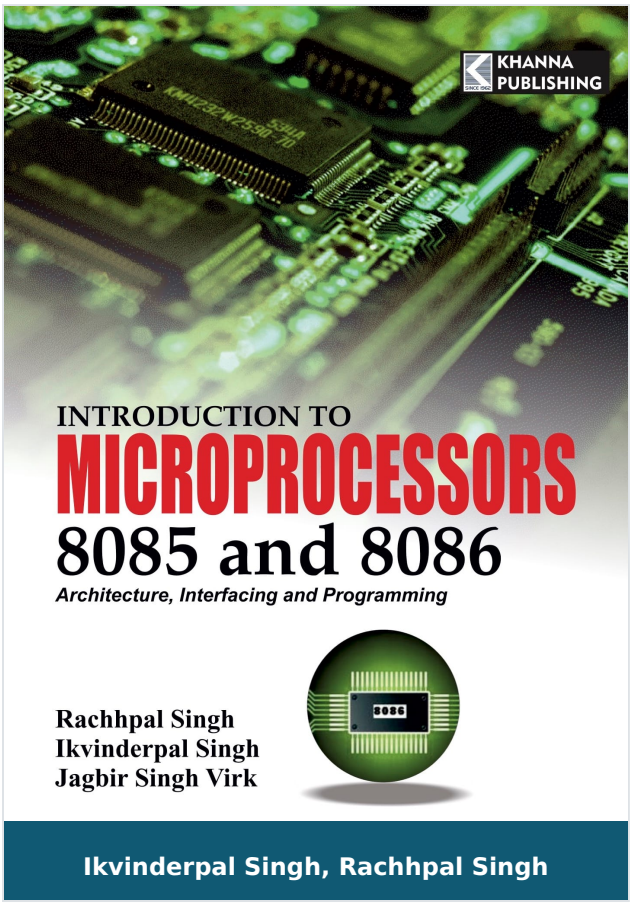

Introduction to Microprocessors 8085 and 8086

Author :	Ikvinderpal Singh, Rachhpal Singh
ISBN 13 :	978-93-80016-57-3
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Categories :	Electrical, Electronics & Communication Engineering, Book Store
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Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of microprocessors. Its approach is explanatory and language is lucid and communicable. Each and every microprocessor described with the help of internal architecture its pin diagram and interfacing to have clear ideas lucid presentation of instruction set of each microprocessor.

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- Microprocessors
- Instruction Classification
- Microprocessor
- Instruction Set
- Assembly Language
- DMA Controller
- Programmable Peripheral Interface
- 8253/8254 Programmable Timer/Counter
- Programmable Interrupt Controller
- USART
- RS232C

Author

Ikvinderpal Singh

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

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Rachhpal Singh is head of P.G. Dept. Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA from thapar Institute of Engineering and Technology, patiala. He has over fifteen years of teaching experience to teach post graduate classes. He is an international author of the world level and his other areas of interest include software engineering, parallel processing system level programming.

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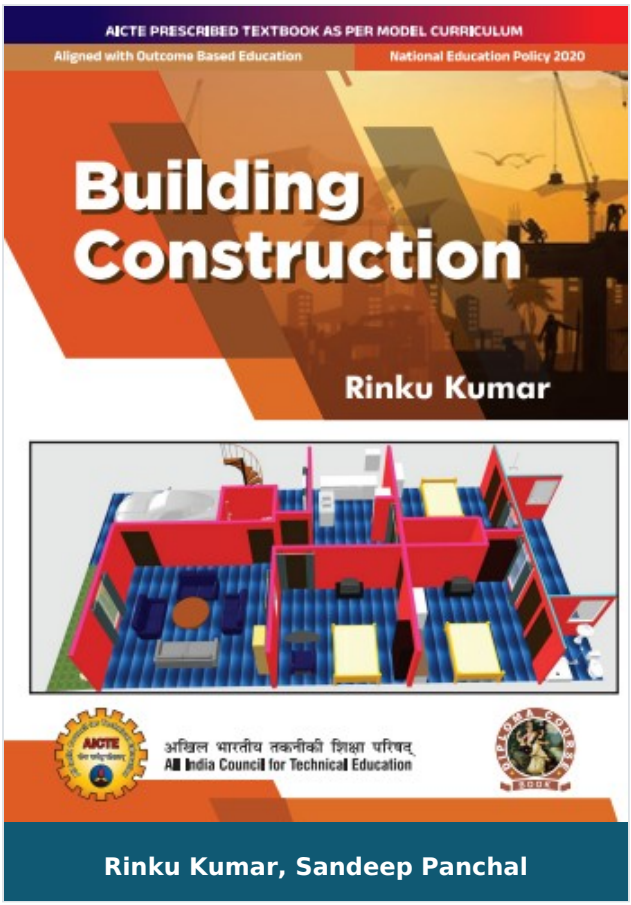

Building Construction

Author :	Rinku Kumar, Sandeep Panchal
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Product Description

Building Construction

This book familiarizes the students with the basics of building construction. The main aim of this book is to provide conceptual knowledge of techniques and processes used for the construction of buildings that can be applied with the model curriculum of AICTE followed by the concept pf outcome-based education according to the National Education Policy (NEP) 2020.

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.
- The book consists of a lot of information about the construction of the various parts of building, making it easier to understand by the students.
- The 2-d and 3-D figures are given for enhancing the understanding of the subject in the students and field engineers.
- QR codes are given in the book to access advanced information about the different topics.
- Apart from the essential information, a `know more’ section is also included that gives information the historical facts and enhances the interest of the students in the subjects.
- Short-answer, long answer and multiple-choice questions (MCQs) are given for practice at the end of each unit.

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- Construction of substructure
- Construction of Superstructure
- Building Communication and Ventilation
- Building Finishes
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- Co and Po Attainment table
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Author

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Dr. Rinku Kumar Assistant Professor, Lecturer, Government Polytechnic Mankeda, Agra, Uttar Pradesh Dr.

Sandeep Panchal

Dr. Sandeep Panchal Lecturer, Department of Civil Engineering, Government Polytechnic Mankeda, Agra, Uttar Pradesh, India

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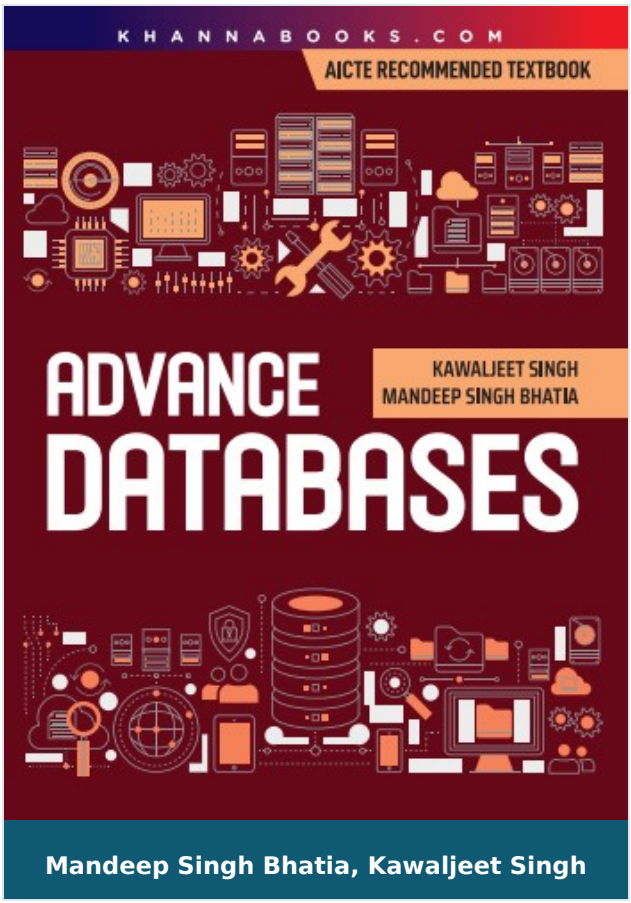

Advance Databases

Author :	Mandeep Singh Bhatia, Kawaljeet Singh
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Product Description

This book provides a comprehensive introduction to database system concepts, design and their applications. Besides the introduction of the simple databases concepts; it also covers the advance databases concepts with latest developments and trends in database technology. Basic concepts of database management systems. Step-by-step information to the concepts of normalization with various normal forms. Relational database concepts such as relational algebra and relational calculus with simplified examples. Advance and emerging database concepts such as object oriented database, distributed database, data warehousing, OLAP and data mining. Exercises having long answer type question for university exams; MCQ's for competitive exams.

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- Modelling Databases
- Normalization
- Relational Databases Concepts
- Database Security
- Essentials of SQL
- Transaction Processing
- Concurrency Control
- Backup and Recovery
- Overview of Advance Databases Concepts
- Data Warehousing
- Online Analytical Processing
- Data Mining

Author

Mandeep Singh Bhatia

Mr. Mandeep Singh Bhatia is presently working as Lecturer in Department of Computer Science & IT, Lyallpur Khansa College, Jalandhar. He is Master in Information Technology and has appropriate knowledge of Computer Software and Hardware. He is proficient in applying Data Mining Techniques in various fields. His subjects of interest are Data Warehousing, Data Mining, Computer Networks and Computer Hardware. His total teaching experience is of 5 years. He has written one research paper which has been published in the proceedings of international conference held at Austria. Other books by authore are: "Fundamentals of Computer Hardware" and "A Beginner's Guide to Visual

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Kawaljeet Singh

Dr. Kawaljeet Singh is presently working as Director, University Computer Centre, Punjab University, Patiala. He is also acting as Dean Faculty of Computer Application (Honorary) & member industry-institute formation of quality committee, PTU, Jalandhar. Earlier, he worked as Professor and Head, Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar. He was also the chairman board of both postgraduate and undergraduate (CSE) & Dean Faculty of Engineering & Technology, GNDU, Amritsar. His total teaching experience is of 18 years. He has written 3 books. His 11 research papers are published in national journal and one paper in international journal.

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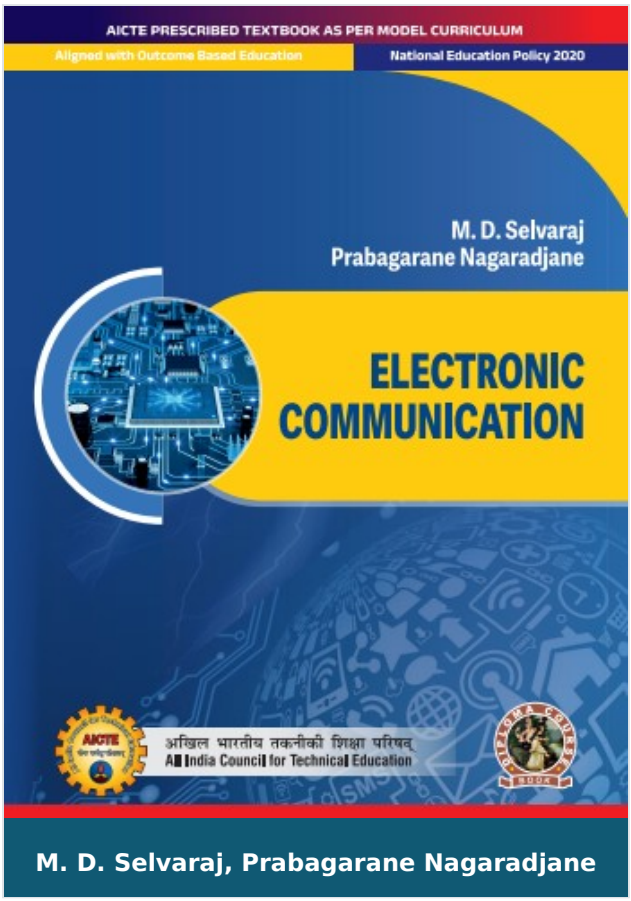

Electronic Communication

Author :	M. D. Selvaraj, Prabagarane Nagaradjane
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Product Description

Electronic Communication

In an era dominated by rapid technological advancements in the next generation of mobile communications, mastering the fundamentals of communication engineering is essential for students. This book, `Electronic communication' thoroughly explores key concepts, theories, and applications in the communication engineering _eld. Furthermore, this comprehensive guide covers a gam- out of topics in communication engineering from fundamental principles to advanced techniques that provide a structured approach to comprehending communication engineering concepts for students or teachers seeking to enhance their expertise.

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.
- At the end of each chapter, short questions, objective questions and long answer exercises are given for the students to practice.

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Author

M. D. Selvaraj

Dr. M. D. Selvaraj Professor, Department of ECE, Indian Institute of Information Technology Dr.

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

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Prabagarane Nagaradjane

Dr. Prabagarane Nagaradjane Associate Professor, Department of ECE

Khanna Publishing House

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

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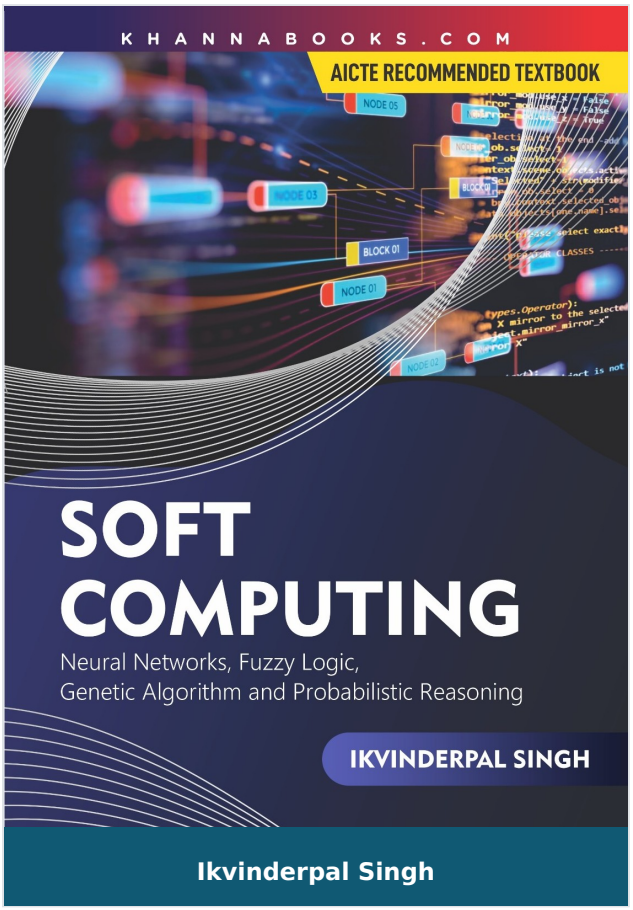

Soft Computing

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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 Soft Computing. It can also meant for Programmers who may be involved in programming based on the soft computing applications. Modern aspects of soft computing have been introduced from the first principles and discussed in an easy manner, So that a beginner can grasp the concept of neural networks fuzzy, genetic algorithm and probabilistic reasoning, each chapter contains solved example problems and exercise problems.

SALIENT FEATURES

- Detailed explanation of soft computing concepts
- Extensive coverage of fundamental concepts of Artificial neural network
- Present architecture and algorithm of every net in enough detail
- Provides examples of simple applications
- Gives mathematical development when it provides a guide to proper implementation of net
- Covers all supervised and unsupervised learning methods
- Discusses on the introduction to classical sets and fuzzy sets
- Fundamental idea on classical relations and fuzzy arithmetic explains in a lucid manner
- Detailed explanation of fuzzy rules is given
- Gives the architecture, operation and various applications of fuzzy logic systems
- Concepts of neuro-fuzzy and genetic algorithm are included
- Detailed analysis of each and every type of probability is explained with the help of examples
- Demonstrates the concept of fuzzy logic and probability.

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This book will be useful for student of BE (Computer/Electronics), B. Tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level course of DOEACC.

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Author

Ikvinderpal Singh

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

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