

Basic Electrical Engineering (with Lab Manual)

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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.
2. AC Circuits.
3. Transformers.
4. Electrical.
5. Machines.
6. Power Converters.
7. Electrical Installations.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- Guidelines for Teacher
- Guidelines for Students
- DC Circuits
- AC Circuits
- Transformers
- Electrical Machines
- Power Converters
- Electrical Installations

Author

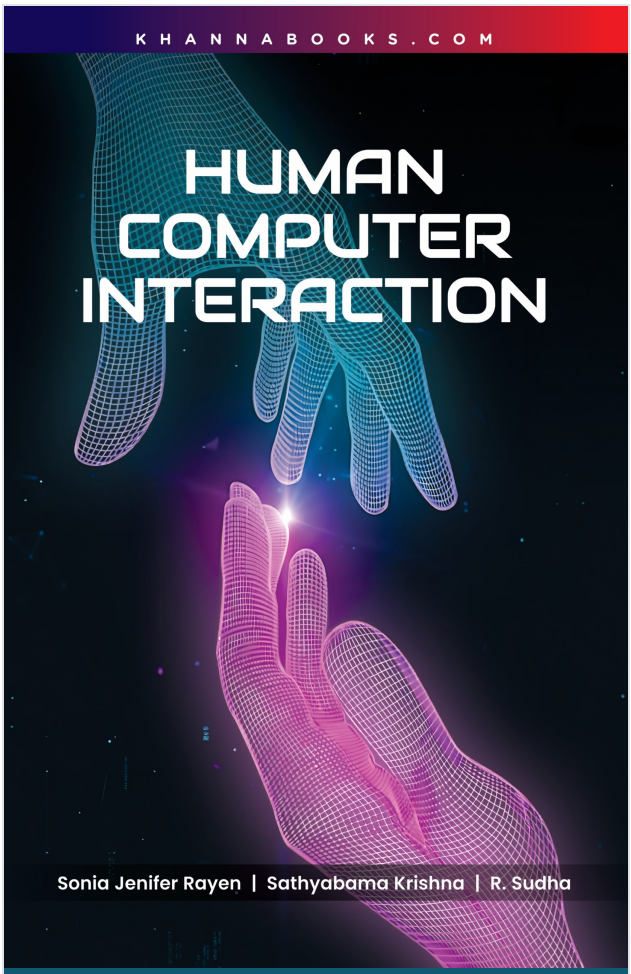
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Sonia Jenifer Rayen, Sathyabama Krishna, R. Sudha

Human Computer Interaction

Author :	Sonia Jenifer Rayen, Sathyabama Krishna, R. Sudha
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Product Description

Human-Computer Interaction (HCI) is a comprehensive and structured resource designed to explore the principles, methodologies, and evolving landscape of interaction between humans and computing systems. Recognizing the critical role of HCI in shaping modern digital experiences, this book focuses on creating technology that is accessible, efficient, intuitive, and user-centered. It examines not only the technical dimensions of interface design but also the cognitive, psychological, and social factors that influence how people interact with digital systems across diverse platforms and devices.

The book provides a balanced blend of theoretical foundations and practical applications, enabling readers to develop a deep understanding of user-centered design principles. Beginning with the fundamentals of HCI, it explores human sensory systems, memory, perception, cognition, and information processing before progressing to advanced topics in interaction design and usability engineering. Through systematic coverage of design methodologies and evaluation techniques, readers learn how to create interfaces that improve user satisfaction, efficiency, and accessibility.

A significant emphasis is placed on contemporary application domains, including mobile interfaces, web applications, and interactive systems. The text introduces established cognitive models such as GOMS (Goals, Operators, Methods, and Selection Rules), linguistic models, and cognitive architectures that assist in predicting user behavior and optimizing interface performance. It also examines socio-organizational considerations, stakeholder requirements, and collaborative design approaches essential for successful system development.

Designed for students, researchers, academics, and industry professionals, this book serves as a valuable guide for mastering interface design, usability evaluation, and user experience development. By integrating human factors, cognitive science, and practical

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design methodologies, it equips readers with the knowledge and tools required to build effective, engaging, and user-friendly computing systems.

Salient Features:

- Foundational Principles: Introduces the core objectives of Human-Computer Interaction, including usability, human factors, user-centered design, and the interdisciplinary contributions of computer science and cognitive psychology.
- Human System Analysis: Explores human sensory and perceptual systems, including vision, hearing, touch, memory, cognition, and information-processing mechanisms that influence user interaction.
- Interaction Design: Covers the essential principles of creating intuitive and effective user interfaces, including navigation structures, screen layouts, interaction scenarios, and the role of HCI within the software development lifecycle.
- Cognitive Models: Provides detailed coverage of major theoretical frameworks such as GOMS (Goals, Operators, Methods, and Selection Rules), linguistic models, and cognitive architectures for analyzing and predicting user performance.
- Socio-Technical View: Examines socio-organizational aspects of system design, including stakeholder analysis, communication models, collaboration frameworks, and non-technical factors affecting technology adoption.
- Mobile HCI Deep Dive: Discusses the mobile ecosystem, mobile application frameworks, mobile web technologies, information architecture, and design challenges associated with modern mobile computing environments.
- Web Interface Mastery: Guides readers through user interface design best practices for web applications, including interface components, navigation structures, interaction techniques, and workflow optimization.
- Practical Prototyping: Covers iterative design and prototyping methodologies, including formative and summative evaluation techniques, storyboarding, animation-based prototypes, and limited-functionality simulations for interface

testing and refinement.

Table Of Contents

- Foundation of Human Computer Interaction (HCI)
- Design & Software Process
- Models and Theories
- Modeling HCI
- Web Interface Design

Author

Sonia Jenifer Rayen

Sonia Jenifer Rayen, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

Sathyabama Krishna

Sathyabama Krishna

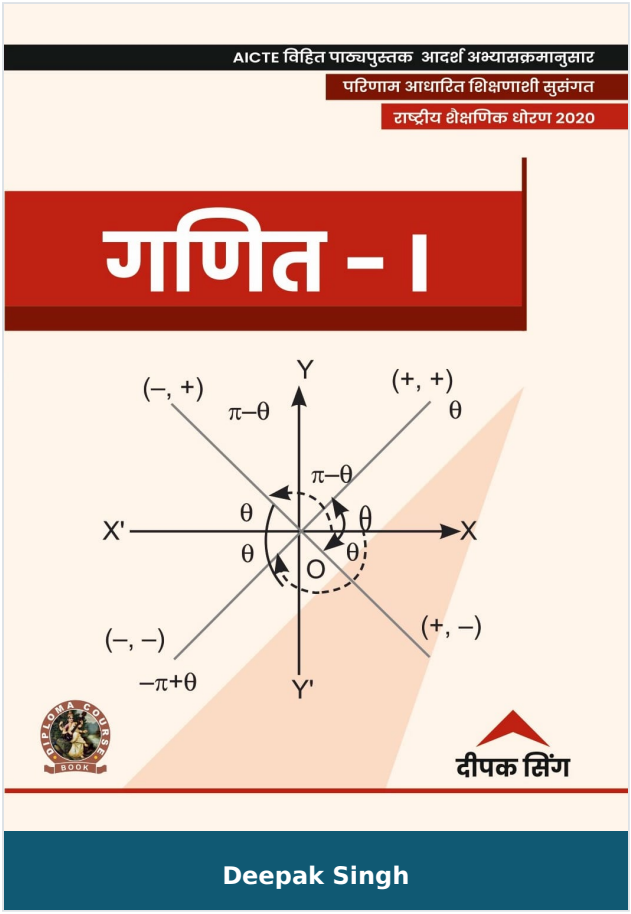
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Mathematics-I

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Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education.

Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension.

Some salient features of the book

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

· Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.

· Students and teacher centric subject materials included in book with balanced and chronological manner.

· Figures, tables and mathematical equations are inserted to improve clarity of the topics.

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

· Comprehensive synopsis of formulae for a quick revision of the basic principles.

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Table Of Contents

- Trigonometry
- Functions and Limit
- Differential Calculus
- Complex Numbers and Partial Fraction
- Permutation and Combination, Binomial Theorem
- Appendices
- References for Further Learning
- CO and PO attainment Table
- Index

Author

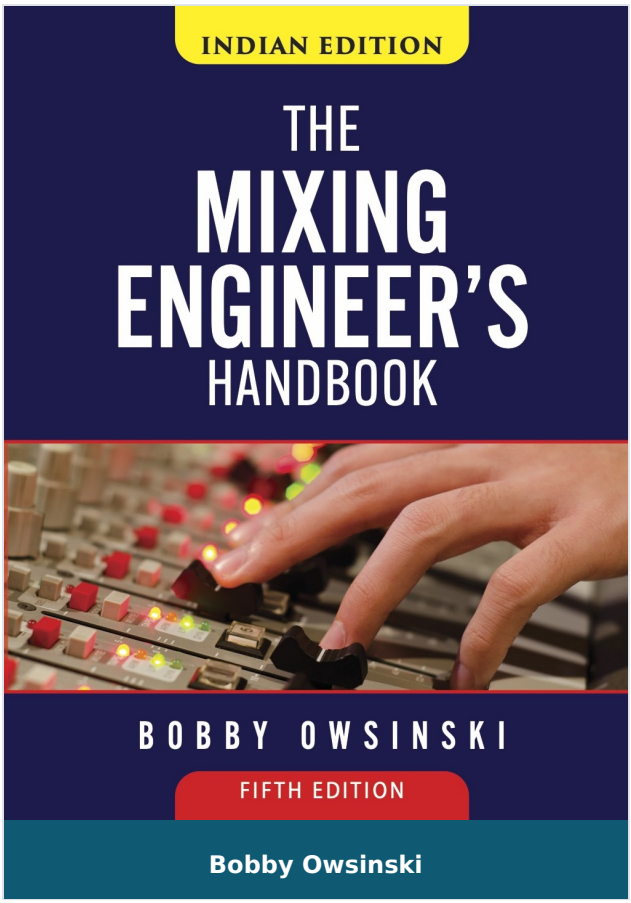
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The Mixing Engineer's Handbook (Indian Edition)

Author :	Bobby Owsinski
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E-ISBN 13 :	978-93-55389-15-2
Edition :	Fifth Edition
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Product Description

For more than two decades, The Mixing Engineer’s Handbook has been the best selling and most respected resource in the art of music mixing for seasoned professionals and enthusiastic beginners alike. Today’s home studio is just as powerful as any commercial

Studio, but it’s the techniques that the top mixers use that separate their work from what most musicians, songwriters or artists can produce without that knowledge. In the fully updated 5th edition of the Handbook, you’ll find all the fundamentals and advanced techniques used by the pros to create the music you love.

Guaranteed to help you get a great mix regardless of your gear, environment or the kind of music you work on, you’ll find your mixing chops better with each chapter.

Topics include

. Three new mix build techniques for better balances and faster mixes

. A new method for setting compressors to breathe with the pulse of the song for more punchy and powerful mixes

. A look at the latest intelligent processor plugins designed to make the difficult tasks of mixing easier

. Editing techniques with playlists in mind to make your mixes more streaming-ready

. A totally new chapter on immersive audio including a primer for mixing in Dolby Atmos

. Headphone mixing and room calibration technology tips and much more

The book also features new interviews with some of the most successful and celebrated audio mixers from all different music genres, as well as a bonus website with 12 additional interviews not found in the book.

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Learn the art of mixing from start to finish, and pick up tips and techniques from the pros, with the Mixing Engineer’s Handbook, Fifth Edition.

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Table Of Contents

- Introduction
- PART I
- Meet The Mixers
- Some Background
- Monitoring
- Mix Preparation
- The Mechanics of Mixing
- Mix Balance
- The Mixing Part of Mixing
- The Panorama Element: Placing Mix Elements in The Soundfield
- Immersive Audio: Beyond the Stereo Soundfield
- The Dynamics Element: Compression, Limiting, Gating, And De-Essing
- The Frequency Element
- Using the Equalizer
- The Dimension Element: Adding Effects
- The Interest Element: The Key to Great (As Opposed to Merely Good) Mixes
- Advanced Techniques
- The Master Mix
- Interviews:
- Bob Brockman
- Bob Bullock
- Joe Ciccarelli
- Richard Chycki

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- Billy Decker
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- Robert Orton
- Greg Penny
- Dave Pensado
- Elliot Scheiner
- Andrew Scheps
- Ken Scott
- Ed Seay
- Glossary
- About Bobby Owsinski

Author

Bobby Owsinski

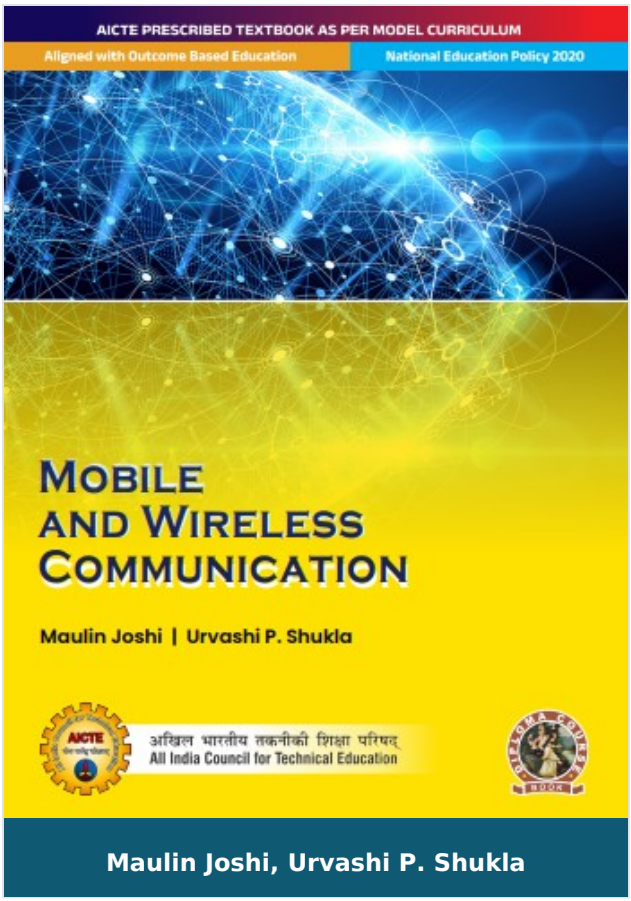
Bobby Owsinski is one of the bestselling authors in the music industry with 24 books that are staples in audio recording, music and music business programs in colleges around the world, including the Mixing Engineer’s Handbook, The Music Producer’s Handbook, Music 4.0: A Survival Guide for Making Music in the Internet Age, and more. He’s also a contributor to Forbes covering the new music business, his popular production and music industry blogs are over 8 million visits, and he’s appeared on CNN and ABC News as a music branding and audio expert. Visit BobbyOwsinskiBlog.com, his music industry blog

at Music3Point0.com, his podcast at BobbyOlnnerCircle.com, and his website at BobbyOwsinski.com.

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Mobile and Wireless Communication

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Product Description

Mobile and Wireless Communication

This text book on Mobile and Wireless Communication provides foundation of the subject to the reader. It familiarizes readers to evolution of wireless communication, system design, system capacity, knowledge of wireless propagation, diversity issues, spread spectrum, CDMA, OFDM and LTE in context of mobile wireless systems the main concept of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per 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.
- 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.
- Solved and unsolved problems including step wise solved numerical are included in the book.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Cellular System: Overview and Fundamentals of design concepts
- Mobile wireless propagation
- Diversity, Capacity and MIMO Systems
- Overview of CDMA, OFDM and LTE
- CO and PO Attainment Table
- Index

Author

Maulin Joshi

Dr. Maulin Joshi Professor, Sarvajanik University Dr.

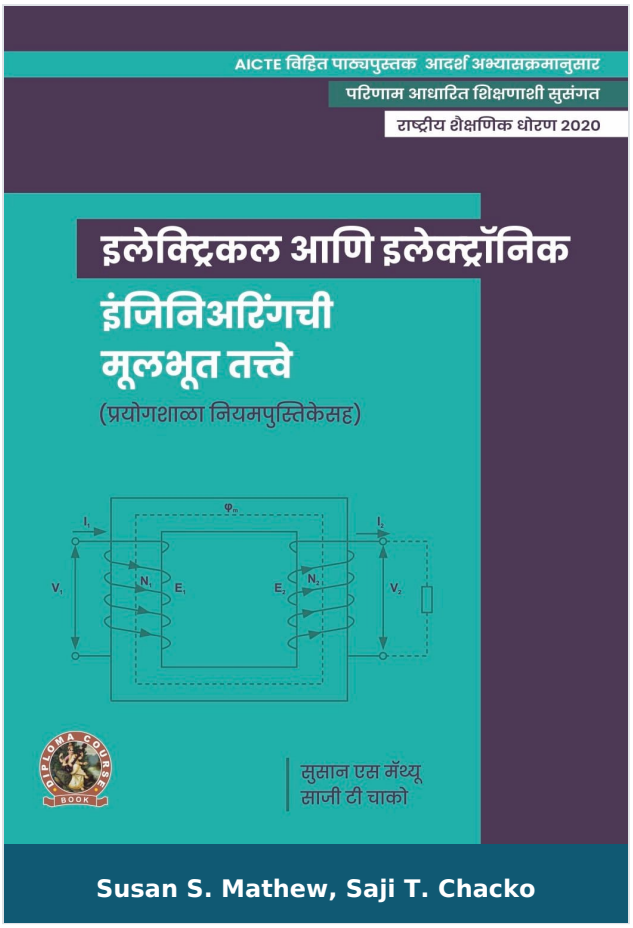
Urvashi P. Shukla

Dr. Urvashi P. Shukla Assistant Professor, Banasthali Vidyapith

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Fundamentals of Electrical and Electronics Engineering (with Lab Manual)

Author :	Susan S. Mathew, Saji T. Chacko
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Product Description

“Fundamentals of Electrical & Electronics Engineering” 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.

Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written is easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided.

Some salient features of the book:

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

2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity.

3. Book provides lots of vital facts, concepts, principles and other interesting information.

4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.

5. Student and teacher centric course materials included in book in balanced manner.

6. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.

7. Objective questions and subjective questions are given for practices of students at the end of each unit.

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

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Table Of Contents

- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students,
- Overview of Electronic Components and Signals.
- Overview of Analog Circuits.
- Overview of Digital Electronics.
- Electric and Magnetic Circuits.
- AC Circuits.
- Transformer and Machines.
- Appendices
- Answer to Objective Questions
- Reference for Further Learning
- Co and PO Attainment Table
- Index

Author

Susan S. Mathew

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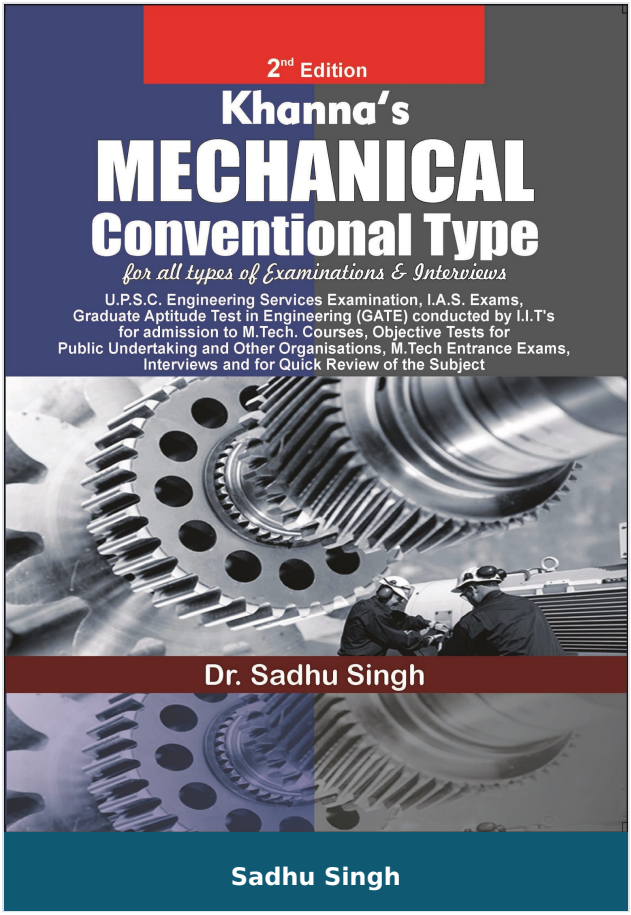
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Khanna's Mechanical Conventional Type

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Product Description

Khanna's Mechanical Conventional Type for all types of Examinations & Interviews U.P.S.C. Engineering Services Examination, I.A.S. Exams, Graduate Aptitude test in engineering (GATE) conducted by I.I.T's for admission to M. Tech. courses, objective tests for public undertaking and other organizations, M. Tech entrance exams, Interviews and for quick review of the subject.

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Table Of Contents

- Mechanical Engineering Paper I - 1992
- Mechanical Engineering Paper I - 1993
- Mechanical Engineering Paper I - 1994
- Mechanical Engineering Paper I - 1995
- Mechanical Engineering Paper I - 1996
- Mechanical Engineering Paper I - 1997
- Mechanical Engineering Paper I - 1998
- Mechanical Engineering Paper I - 1999
- Mechanical Engineering Paper I - 2000
- Mechanical Engineering Paper I - 2001
- Mechanical Engineering Paper I - 2002
- Mechanical Engineering Paper I - 2003
- Mechanical Engineering Paper I - 2004
- Mechanical Engineering Paper I - 2005
- Mechanical Engineering Paper I - 2006
- Mechanical Engineering Paper I - 2007
- Mechanical Engineering Paper I - 2008
- Mechanical Engineering Paper I - 2009
- Mechanical Engineering Paper I - 2010
- Mechanical Engineering Paper I - 2011
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- Mechanical Engineering Paper II - 1995
- Mechanical Engineering Paper II - 1996
- Mechanical Engineering Paper II - 1997
- Mechanical Engineering Paper II- 1998
- Mechanical Engineering Paper II - 1999
- Mechanical Engineering Paper II - 2000
- Mechanical Engineering Paper II - 2001
- Mechanical Engineering Paper II - 2002
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- Mechanical Engineering Paper II - 2004
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- Mechanical Engineering Paper II - 2007
- Mechanical Engineering Paper II - 2008
- Mechanical Engineering Paper II - 2009
- Mechanical Engineering Paper II - 2010
- Mechanical Engineering Paper II - 2011
- Mechanical Engineering Paper II - 2012
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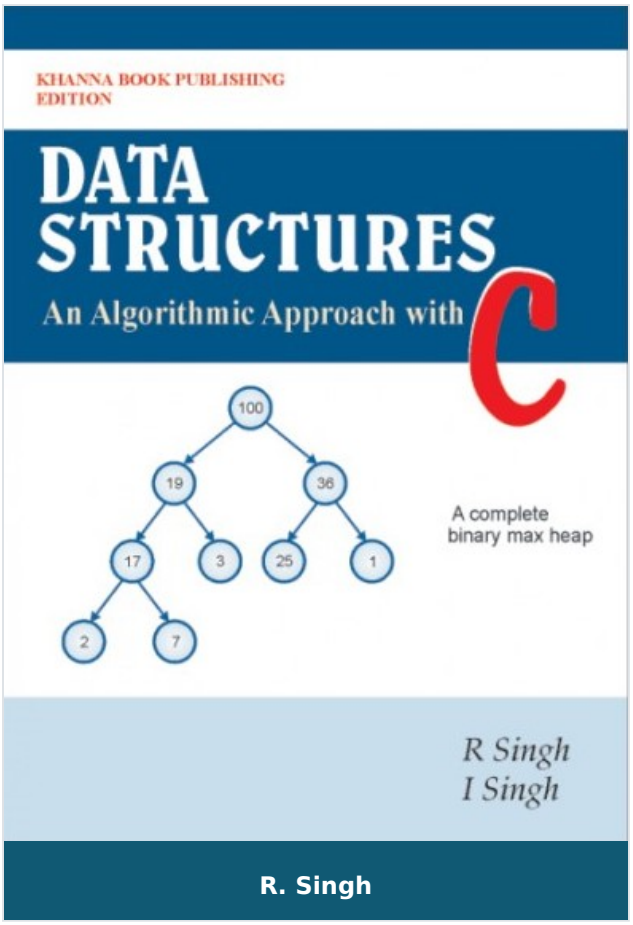
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Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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Data Structures - An Algorithmic Approach with C

Author :	R. Singh
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Product Description

Each chapter begins with an outline an overview, and a list of learning objective. Extensive coverage of data Structure basics, pictorial representation of each and every Data Structures in given in detail. Brief introduction to C language, various types of data structures and analysis of algorithms complexity is covered. Demonstration the development of algorithms is a lucid manner. Includes numbers illustrative examples to understand the topic easily. Demonstrates the implementation of algorithms in a good programming style. Objective-type questions have been provided. Around 200 solved C programs and algorithms are included. Diagrams are used extensively throughout the text. Contains numerous theory questions at the last of each chapter. Gives detailed description of arrays, stack and queues in lucid manner. Covers all tree structures like binary tree, binary search trees, AVL, B+ tree and red black trees in detail. Detailed analysis of each and every sorting and searching technique is covered with the help of Programming examples. Presents various hashing techniques like hash functions, linear probing, quadratic probing, double hashing and rehashing. Brief introduction to the concept of file and storage management. 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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Table Of Contents

- Introduction to C Language
- Introduction to Data Structures and String Processing
- Algorithm Design and Complexity
- Arrays, Pointers and Records
- Linked Lists
- Stacks
- Queues
- Trees
- Search Trees
- Heaps
- Graphs
- Sorting and Searching Techniques
- Hashing
- File and Storage Management

Author

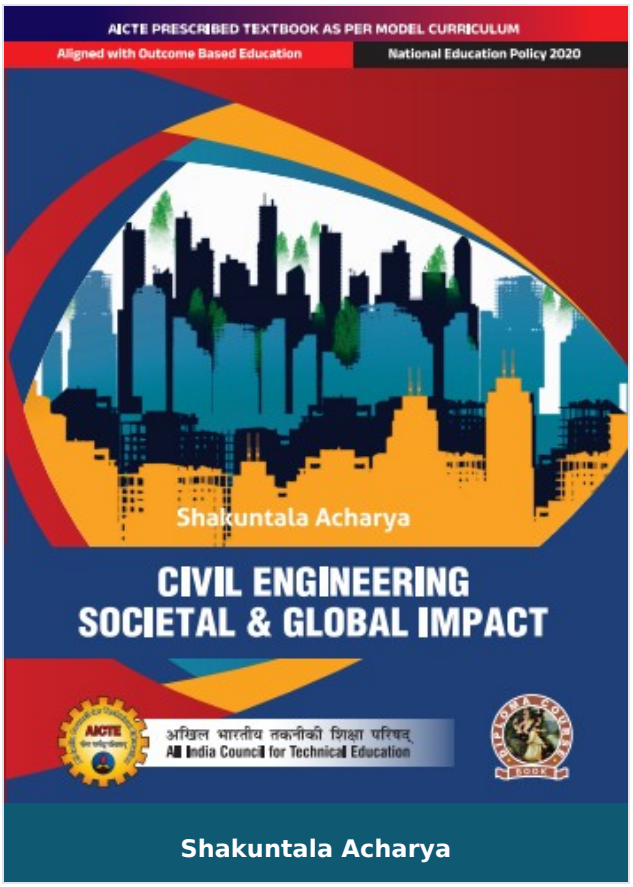
R. Singh

R. Singh "R Singh, MCA is equipped with an extraordinary calibre and appreciable academic potency. He has teaching experience of nearly twenty years. He has authored ten books on various complex topics of computer science. He has already submitted his Ph.D. thesis in the field of system simulation. His other areas of interest include Software Engineering, Data Structures and Information Systems. "

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This book familiarizes the students with the concept of sustainability in the context of Civil Engineering. This book includes fundamentals of sustainable development and impact of civil engineering in total of six units, as impact of Civil Engineering: An Introduction, Importance of Civil Engineering, Infrastructure, Environment, Built Environment, and Civil Engineering Projects. Main purpose of this book is to help under graduate civil engineering students to understand and apply the concepts of sustainability to applications in engineering problems. The content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP) 2020.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Impact of Civil Engineering: An Introduction
- Importance of Civil Engineering
- Infrastructure
- Environment
- Built Environment
- Civil Engineering Projects
- References for Further Learning
- Index

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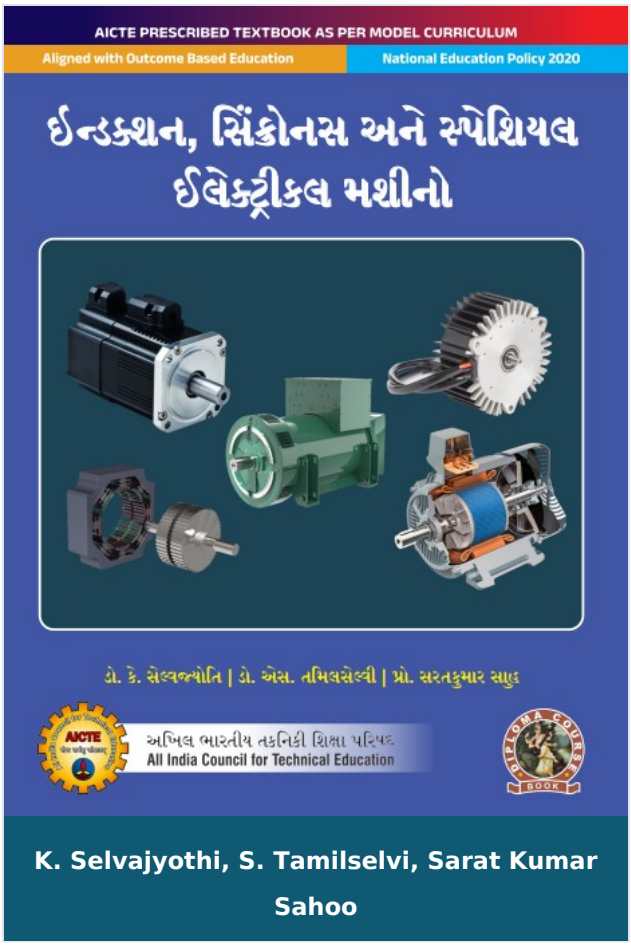
Shakuntala Acharya

Dr. Shakuntala Acharya Assistant Professor, IIT Guwahati, Assam

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Author

K. Selvajyothi

Dr. K. Selvajyothi Associate Professor, IIITDM Kancheepuram, Chennai Dr.

S. Tamilselvi

Dr. S. Tamilselvi Associate Professor, Sri Sivasubramaniya Nadar College of Engineering, Chennai

Sarat Kumar Sahoo

Dr. K. Selvajyothi Associate Professor, IIITDM Kancheepuram, Chennai Dr. S. Tamilselvi Associate Professor, Sri Sivasubramaniya Nadar College of Engineering, Chennai

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