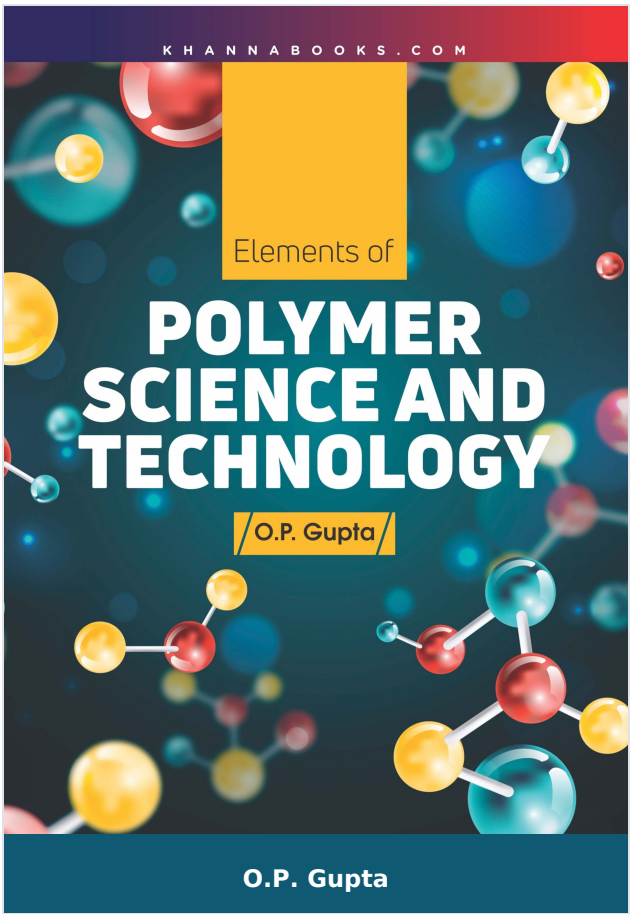


Elements of Polymer Science and Technology

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Product Description

This book covers the manufacture, properties of important polymers-plastics, rubbers & synthetic fibers. Important Information about various raw materials used for polymer industries, various polymers processing technologies & status of Indian polymer industry are also included. It also contains short questions & answers and multiple- choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students.

This book is targeted to benefit the following:

1. Diploma in engineering student.
2. Degree in engineering students.
3. AMIE , AMIIM , AMIICHE Students.
4. MSc. & B.Sc. Students.
5. Faculty members and teaching staff.
6. Practicing engineers / Professionals.

The scope and coverage of subject matter presented can be gauged from glancing the contents portion of the book to judge its suitability and relevance for a particular target group of reader. Extensive use of internet resources has been made in gathering the relevant information and the subject matter has been presented in a simple, lucid and easy to understand manner for easy grasping of the subject.

Latest and updated information /data/ statistics pertaining to the subject matter has been included in this edition for the benefit of the readers.

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- Manufacture, Properties & Applications of Important Plastics.
- Manufacture, Properties & Applications of Important Elastomers (Rubbers).
- Manufacture, Properties & Applications of Important Synthetic Fibers.
- Appendices

Author

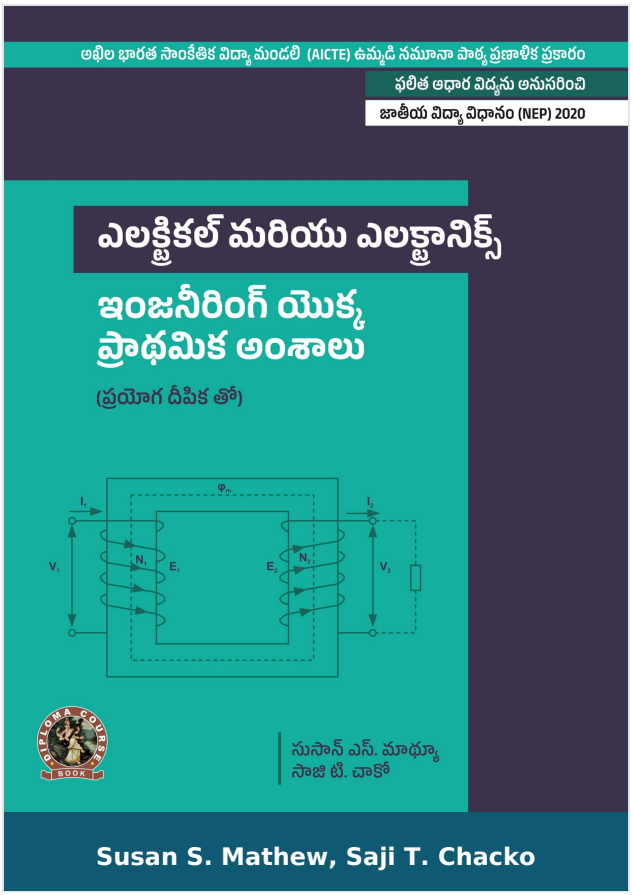
O.P. Gupta

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 (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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Fundamentals of Electrical and Electronics Engineering (with Lab Manual)

Author :	Susan S. Mathew, Saji T. Chacko
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ISBN 10 :	939150518X
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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.

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

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- 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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Susan S. Mathew

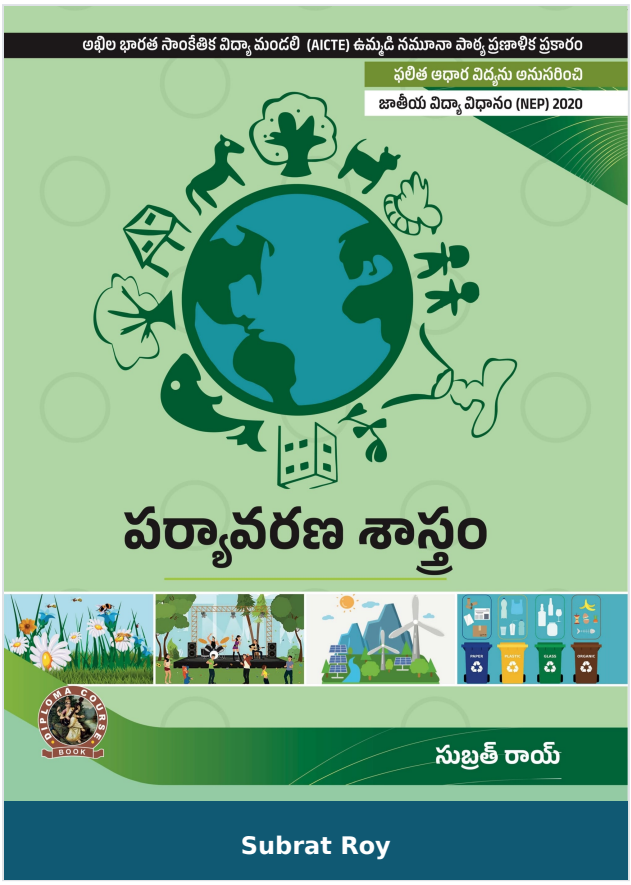
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Environmental Science

Author :	Subrat Roy
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Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

“Environmental Science” is an audit course for the first year Diploma programme 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 four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as 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 aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

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

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

4. Figures and tables are insert to improve clarity of the topics.

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

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- Air and Noise pollution.
- Renewable sources of Energy.
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
- Index.

Author

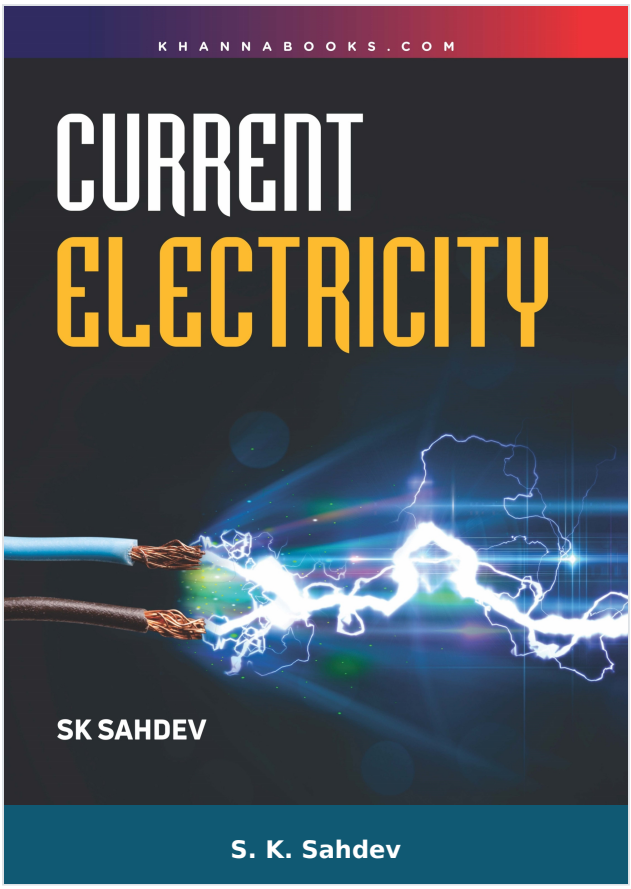
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Current Electricity

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Product Description

CURRENT ELECTRICTY - SK SAHDEV

TOPICS COVERED IN THE BOOK

1. CURRENT ELECTRICITY.
2. DC CURRENT.
3. ELECTRIC CELLS.
4. LIGHTING EFFECT OF ELCTRIC CURRENT.
5. CAPACITORS.
6. ELECTROMAGNETIC EFFECTS.
7. C. CIRCUIT.

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- Current Electricity.
- DC Circuits.
- Electric Cells.
- Lighting Effect of Electric Current.
- Capacitors.
- Electromagnetic Effects.
- A. C. Circuits.

Author

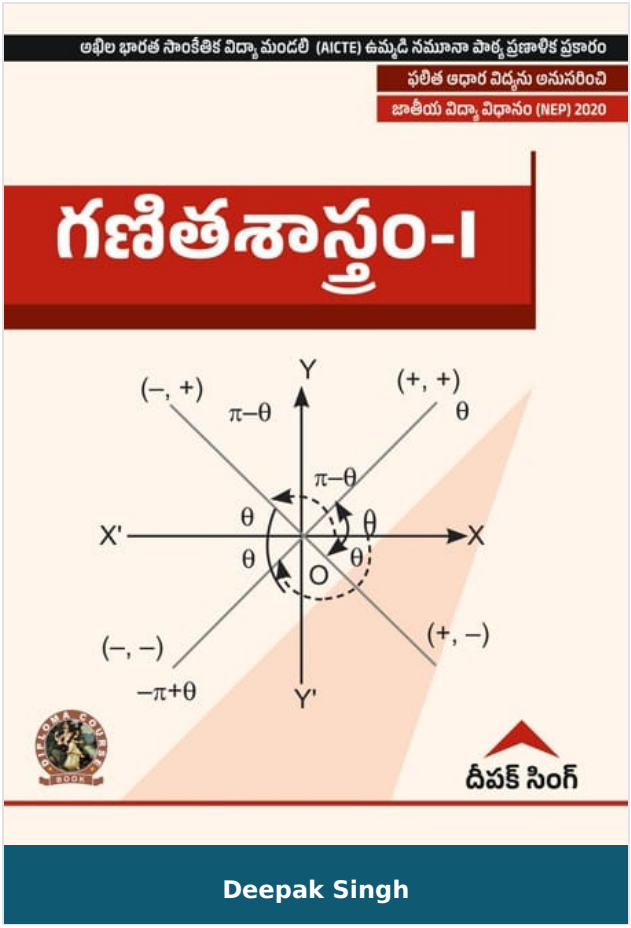
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Deepak Singh

Mathematics I

Author :	Deepak Singh
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Condition Type :	New
Country Origin :	India

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:

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

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

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

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

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

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

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- 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
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Author

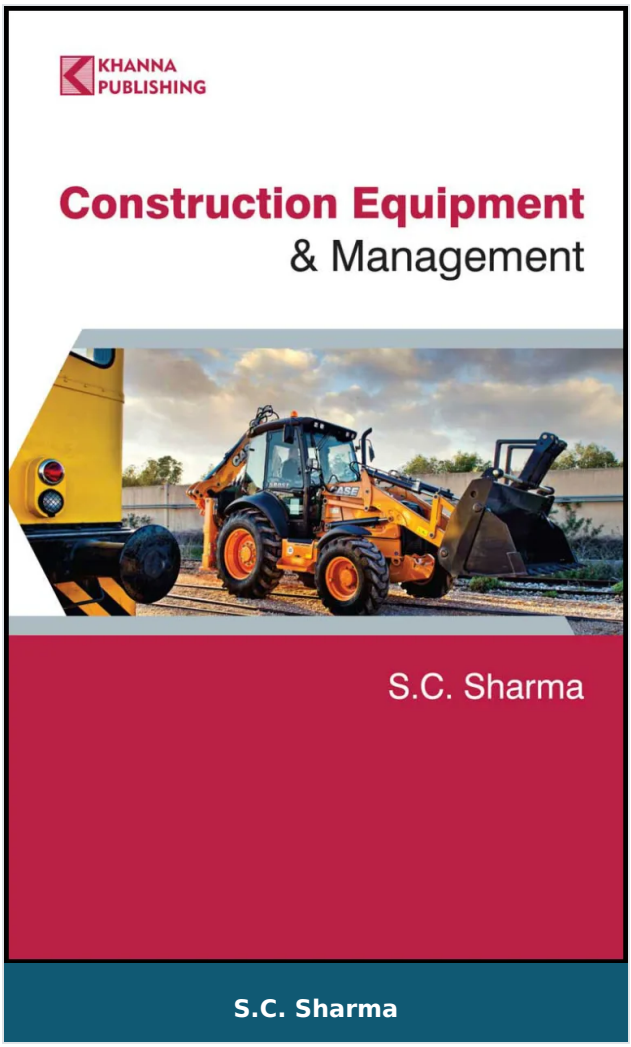
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Construction Equipment & Management

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Product Description

The book will help the students to understand various equipment various equipment used in different types of construction works, and aspects related to the management of theses construction equipment. The book will meet the requirement of construction engineers to become thoroughly familiar with the working, application, upkeep, and optimizing the production of the wide range of modern construction equipment.

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- PART - IV OTHER CONSTRUCTION EQUIPMENT
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- Drilling and Blasting Equipment
- Tunnelling Equipment
- Pumping and Dewatering Equipment
- Pile Driving Equipment
- PART -V MATERIALS HANDLING EQUIPMENT
- Introduction to materials Handling

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- Hoisting Equipment
- Transportation Equipment for Materials Handling
- Conveying Equipment
- Latest Developments in Construction
- Appendics
- Index

Author

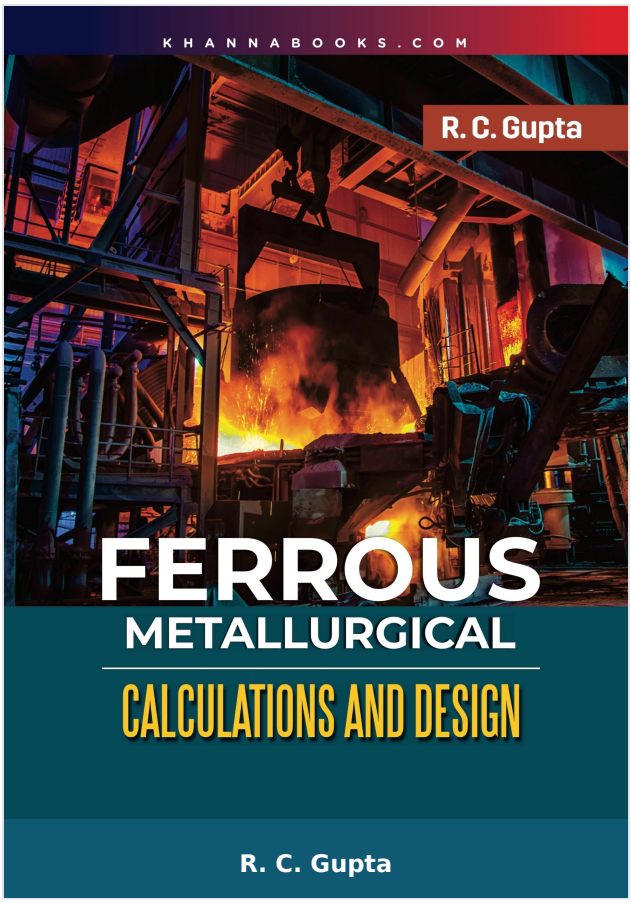
S.C. Sharma

S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

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Ferrous Metallurgical (Calculations and Design)

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Product Description

This book is a unique combination of ferrous metallurgical calculations and unit design. The book is divided in two arts each having eight chapters.

The part one on ferrous metallurgical calculations gives method to calculate mass balance, chemical analysis of the product and waste materials including exit gases. This part one covers Coal & It’s Properties, Combustion of Fuels, Coke Making, Iron Ore Agglomeration, Blast Furnace Iron Making, Alternate Methods of Iron Making, Ferroalloy Preparation and Melting Metal & Alloys.

The second part on Ferrous Metallurgical Unit Design may be a globally first attempt to provide method of estimating basic design dimensions of some metallurgical units. This part covers Chimney & Draught, Coke Oven, Blast Furnace, DRI Kiln, Ladle Cupola, Basic Oxygen Steel Making Furnace, and Electric arc Furnace.

In addition, the appendices provide weight, Measure & Science Laws, Mathematical Formulae, Unit Conversion Tables, Useful Data, Commonly Used Materials, Raw, Materials for Iron & Steel Making, Fuels and their Properties and Steel Plant Waste materials.

Keys features

1. A useful book for Academic Staff & Students in Metallurgical Engineering, Still Plant Executives, Metallurgical Consultants, Steel Plant Managers, Chartered Engineers, and Auditors.

2. A Metallurgical Engineering book giving calculation method for mass balance, product & waste analysis in various ferrous metallurgical processes.

3. A first book to give method for designing metallurgical units e.g. coke oven, blast furnace, DRI Kiln, BOF, EAF, Ladle, Cupola etc.

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4. Each chapter starts with introduction to highlight importance before giving calculation or design & each chapter gives projects for students. Some reference for further reading is also given at the end of chapters.

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- Ferroalloy Making.
- Melting Metals & Alloy.
- Part B: Ferrous Metallurgical Unit Design.
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- Coke Oven Dimensions.
- Blast Furnace Dimensions.
- DRI Kiln Dimensions.
- Ladle Dimensions.
- Cupola Dimensions.
- Basic Oxygen Steel Making.
- EAF Steel Making.
- Appendix

Author

R. C. Gupta

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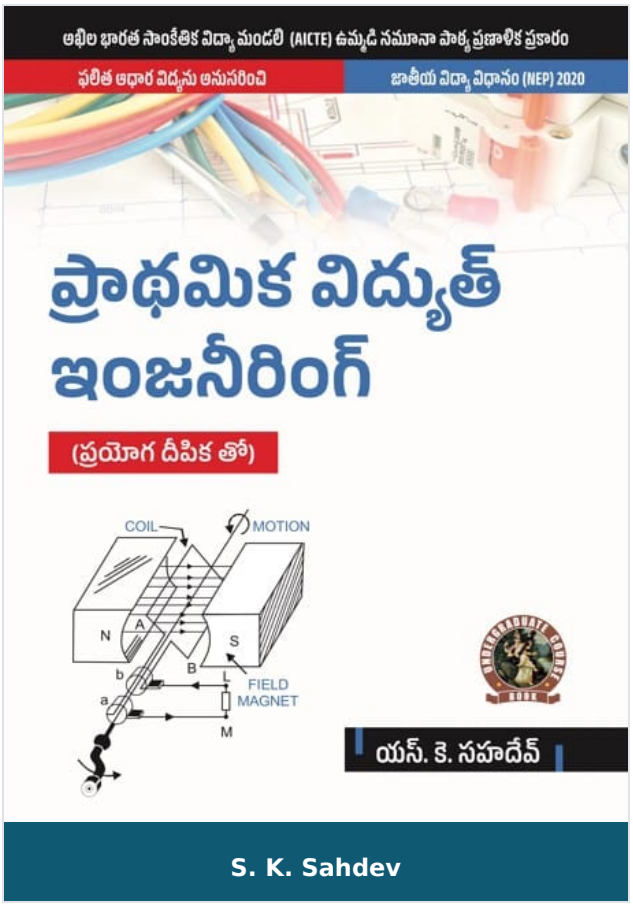
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Prof. R C Gupta is an alumni, Former Professor and Head, Department of Metallurgical Engineering (Advanced Centre in Metallurgy), Institute of Technology (now IIT-BHU), Banaras Hindu University, Varanasi (India). In his four decades (1970-2010) teaching and research carrier he guided many students for their PhD, M. Tech., and B. Tech. degree in Metallurgy. He held various positions in national & international forums including Ministry & Forest (Delhi-GOI) & Pollution Control Board (Bhubaneswar-Odisha State). The Author is globally known by his three popular PHI (Delhi) textbooks: Theory & Laboratory Experiments in Metallurgy (2009 & 2025), Energy & Environmental Management in Metallurgical Industries (2012), and Fuels Furnaces & Refractories (2016). His chapter on Energy Resources, Its Role, and Use in Metallurgical Industries in Elsevier’s publications (2014 & 2024) on Treatise in Process Metallurgy (Chief Ed. Sheshadri Seetharaman) has made global imprint. In view of his books and other research publications (>140 nos.) the author is included in world top 2% scientist prepared by a Group of Professors at Stanford University (USA) in 2020.

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Basic Electrical Engineering (Theory & Lab)

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

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- AC Circuits.
- Transformers.
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- Power Converters.
- Electrical Installations.

Author

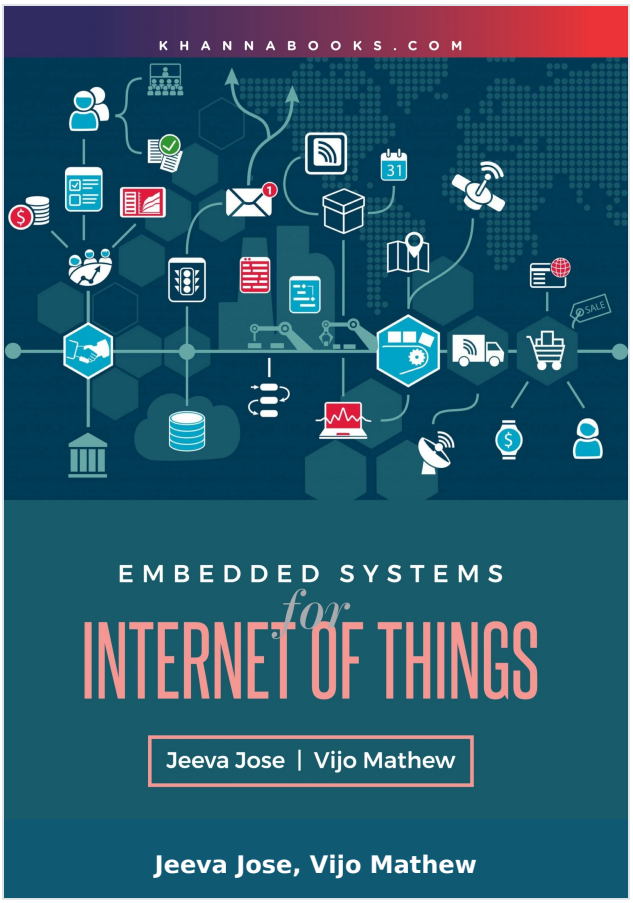
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Embedded Systems for Internet of Things

Author :	Jeeva Jose, Vijo Mathew
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Product Description

Salient Features of The Book

1. Covers complete AICTE syllabus of IoT-04 minor degree course-Embedded systems for IoT.

2. Each Chapter is provided with objective questions with answers and review questions

3. The full form of the explanation of the abbreviations used are given in each chapter.

4. Meets the requirements of India's National Education Policy 2020 (NEP 2020).

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- IoT Design Methodology.
- Embedded Systems.
- Embedded System Design.
- Inputs and Outputs.
- Embedded System Platforms & IDE.
- IoT Sensing Layer Protocols.
- IoT Network Protocols.

Author

Jeeva Jose

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Vijo Mathew is a highly accomplished engineer with three decades of experience in driving innovation and growth in various electrical, electronics, and information technology industries. His track record is complemented by a postgraduate degree in management, equipping him to excel in business management, strategic management, and technology management. His expertise is highly valued in the fields of software,

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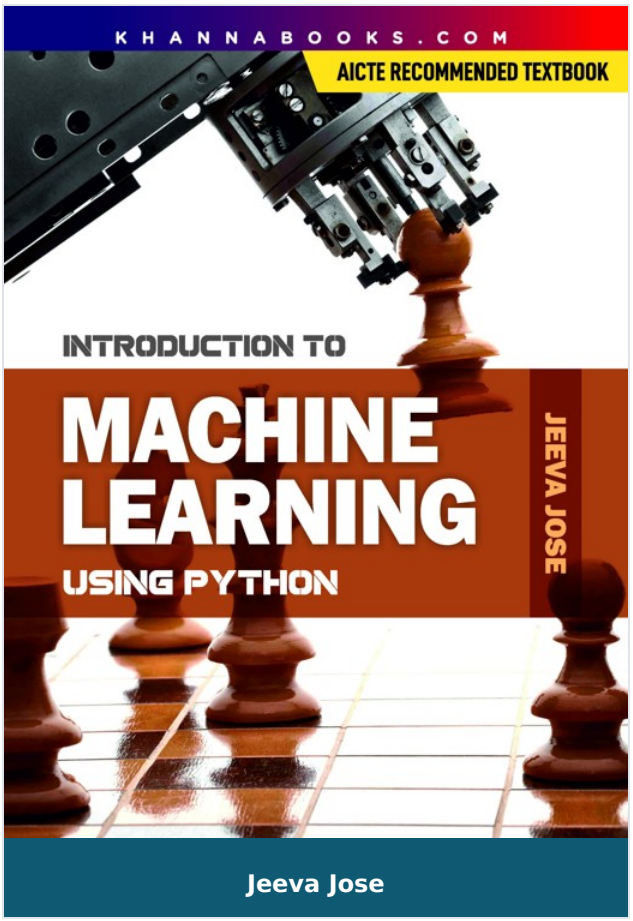
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electrical and electronics hardware, and design where he provides strategic guidance and mentorship to organizations seeking to stay ahead of the curve. He has demonstrated a unique ability to bridge the gap between technology and business driving success through his visionary approach and collaborative leadership style. His leadership skills and technical acumen have made him an advisor to some reputed national and international corporations. As an advisor and strategic leader, he is helping organizations achieve their full potential through innovative solutions, effective management, and visionary leadership. He is also author of many books related to technology and management.

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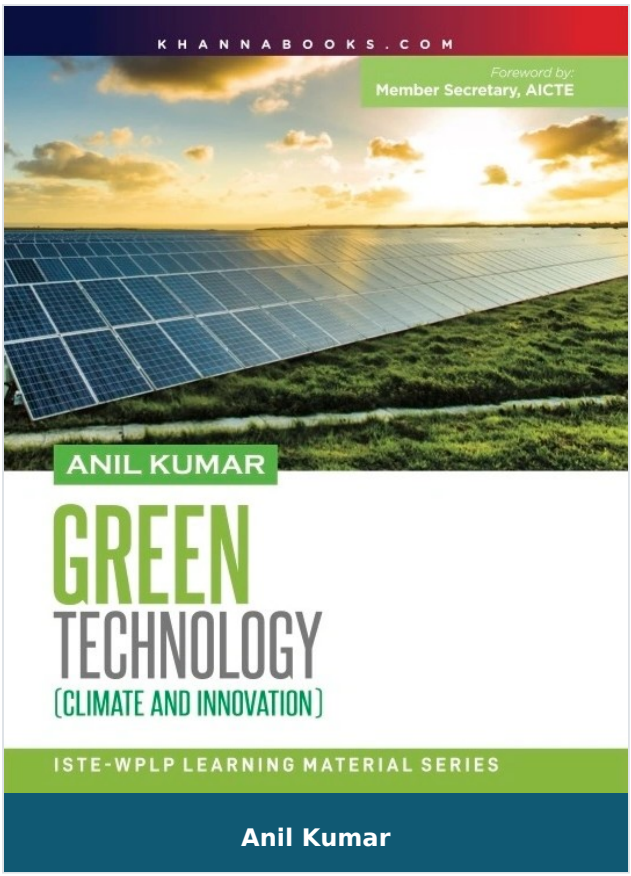
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Green Technology: Climate and Innovation offers a powerful narrative on talking global climate change through innovative and sustainable solutions. Blending scientific insights, global policies, and India’s pioneering efforts, the book is an essential guide for policymakers, academicians, and anyone passionate about the environment.

The book starts with the basics, explaining how Earth’s atmosphere, weather, and climate are interconnected and how human activities disrupt this delicate balance, causing global warming. It explores the impacts of this warming, extreme weather, rising sea levels, and ecological imbalance, while emphasizing the urgent need for mitigation and adaptation strategies.

Complex concepts such as radiating forcing, representative concentration Pathway (RCPs), and shared socioeconomic Pathways (SSPs) are presented in an accessible way, helping readers understand future climate scenarios. The book also highlights international collaborations and key climate agreements, from the Kyoto protocol to the Paris Agreement, including critical takeaways from COP26.

India’s leadership in addressing climate change is a central theme, showcasing its renewable energy drive, energy efficiency initiatives, sustainable urban planning, and afforestation projects. The book further delves into clean technologies transforming sectors like energy, water, agriculture, and transportation.

Tying sustainable to India’s vision of Atmanirbhar Bharat, it underscores how integrating green technologies can drive nation progress. The concluding chapter calls for collective global action to ensure a resilient future for the planet.

Green Technologies: Climate and Innovation is more than a book – it’s a call to action offering knowledge, insights, and inspiration to build a sustainable world.

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Author

Anil Kumar

Prof. Anil Kumar is a distinguished figure in the fields of environmental science, disaster management, and climate change, with an illustrious career spanning academia, government, and industry. With a Doctorate in Environmental Science and an M.E. in Hydrology from IIT Roorkee, he has also earned an M.Sc. in Disaster Mitigation, a Master’s in Ecology & Environmental, and a Gold Medal in Civil Engineering during his

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undergraduate studies. Currently serving as a professor of practice at the National Institute of Technical Teachers' Training and Research (NITTTR) Kolkata- a- Deemed-to-be University under the ministry of Education, Government of India- Prof. Kumar held several prestigious positions. These include Senior Advisor (Environment & Climate Change) at the Bihar State Disaster Management Authority, Director at Adamas University, and State Project Administrator of the World Bank's TEQIP-III initiative for Uttar Pradesh Under the Ministry of Human Resource Development (MHRD). He has also made impactful contributions as a Deputy Director General and Director general (I/C) at the institution of Engineers (India), Deputy Director at the All India Council for Technical Education (AICTE), and Superintending Engineer at the Damodar Valley Corporation. His association with UNESCO's Hydrology Program at IIT Roorkee and governance roles in bodies like the Indian Society for Technical Education (ISTE) and the Solar Energy Society of India reflect his dedication to advancing technical education and environmental sustainability. In recognition of his exceptional contributions to the national technical education system, Prof. Kumar was conferred the ISTE Fellowship in 2024. As an accomplished author, he has penned influential works, including Disaster Management, Water Security and Ecosystem Balance, and Environmental Studies and Disaster Management. His extensive knowledge and expertise firmly establish him as a leading authority in climate change and Disaster risk resilience, inspiring the next generation of professionals in these critical domains.

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