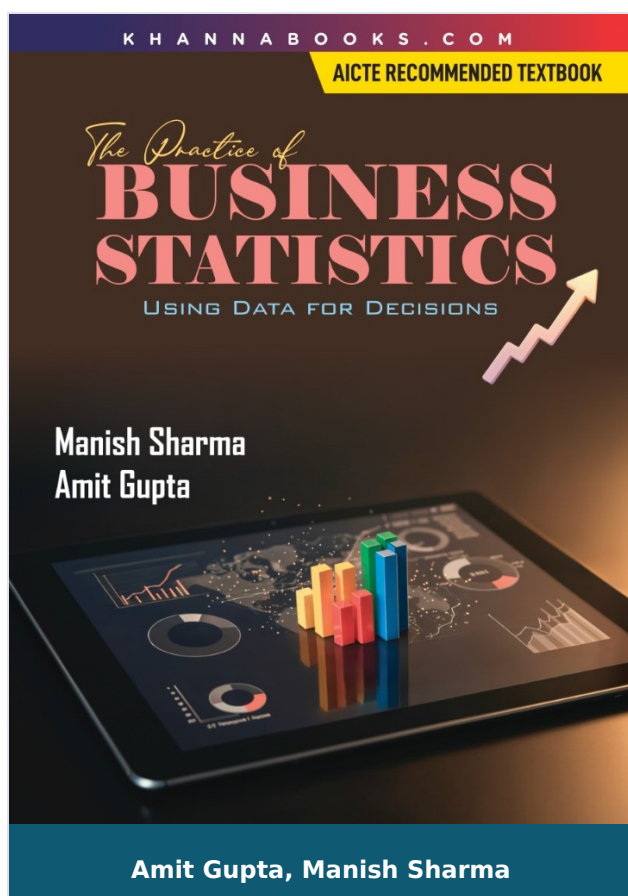




The Practice of Business Statistics

Author : Amit Gupta, Manish Sharma

ISBN 13 : 978-93-80016-51-1

ISBN 10 : 9380016514

E-ISBN 13 : 978-93-80016-51-1

Edition : 1

Pages : 840

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 650.00

Categories : [APPLIED SCIENCES & HUMANITIES, Book Store,](#)
[APPLIED SCIENCES & HUMANITIES](#)

Condition Type : New

Country Origin : India

Product Description

Easy to read & write style, Adequate example and problems based on real-life business situations, Every chapter is supported with multiple choice questions, Theoretical questions and numerical for better practice, Explanation of import concepts through various worked-out examples, The book is presented with an approach to explain the graphs have been drawn which enable students to grasp the subject in an easy way, Systematic and sequential arrangement of different topics, Rich pedagogy.

Table Of Contents

- Introduction, Meaning, Definition and Scope
- Collection of Data
- Organising Data: Classification and Tabulation
- Presentation of Data: Diagrammatic
- Presentation of Data: Graphic
- Measures of Central Tendency
- Measures of Dispersion (Variation)
- Skewness, Moments and Kurtosis
- Index Numbers
- Correlation Analysis
- Regression Analysis
- Time Series Analysis and Forecasting
- Probability and Mathematical Expectation
- Probability Theoretical Distributions
- Sampling Distributions and Estimation
- Test of Hypothesis
- CHI-Square Test
- Analysis of Variance (Anova)
- Association of Attributes
- Statistical Decision Theory (SDT)
- Statistical Quality Control (SQC)
- Appendix
- Index

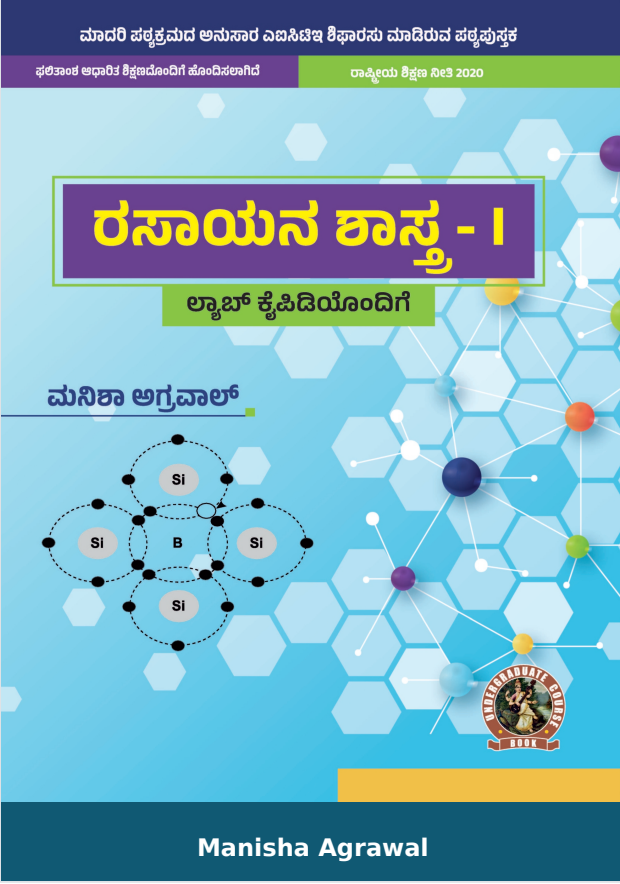
Author

Amit Gupta

Amit Gupta: Asst. professor, Determent of CS & IT, Rakshpal Bahadur Management Institute, Bareilly.

Manish Sharma

Dr. Manish Sharma : Director General, RBMI Group of Institutions, Bareilly and Greater Noida.



Chemistry I (with Lab Manual)

Author : Manisha Agrawal

ISBN 13 : 978-93-91505-46-2

ISBN 10 : 9391505465

E-ISBN 13 : 978-93-91505-46-2

Edition : 1

Pages : 268

Type of book : Physical

Year : 2023

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Kannada Books, Book Store,](#)
[Ebooks](#)

Condition Type : New

Country Origin : India

Product Description

“Chemistry-I” is a compulsory paper for the first year Undergraduate 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 seven topics-Atomic and molecular structure, Spectroscopic Technique and applications, Inter-molecular Forces and Potential Energy Surfaces, Use of Free Energy in Chemical Equilibrium, Periodic Properties, Stereo-chemistry, Organic Reactions and Synthesis of Drug Molecules. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test student's comprehension.

Salient Features:

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. Students and teacher centric subject materials included in book with balanced and chronological manner.
4. Figures, tables, chemical equations and comparative charts 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. Solved and unsolved problems including numerical examples are solved with systematic steps.

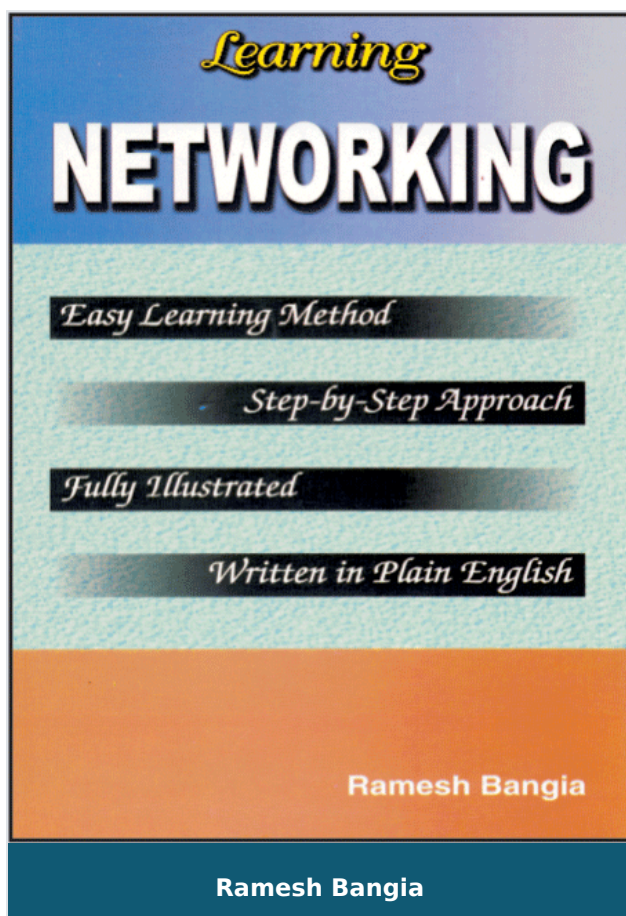
Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Atomic and Molecular Structure
- Spectroscopic Techniques and Applications
- Intermolecular Forces and Potential Energy Surfaces
- Use of Free Energy in Chemical Equilibria
- Periodic Properties
- Stereochemistry and Organic Reactions
- Organic Reactions Synthesis of Drug Molecules
- Annexure
- Appendices

Author

Manisha Agrawal

Manisha Agrawal Dr. Manisha Agarwal is Dean, Basic Sciences at Chhattisgarh Swami Vivekanand Technical University Bhilai. Professor and head, Department of Chemistry at Rungta College of Engineering & Technology, Bhilai, (C.G.). She completed Ph. D. from Pt. Ravishankar Shukla University, Raipur in 1999. Since then she has been engaged in teaching and research. Dr. Manisha has authored several papers which have been published in SCI indexed International and National journals. She has organised more than 10 Conferences and workshops as convener among them four were International Conferences. She has credited five books as author, three patents as inventor and applicant and six Research Project Grants as Principal Investigator from Government Funding agencies like AICTE, CCOST and CSVTU. She has supervised 5 M. Phil. Students, 12 BE and Diploma students. Presently 6 research scholars are perusing Ph. D. under her supervision.



Learning Networking

Author :	Ramesh Bangia
ISBN 13 :	978-81-87522-00-3
ISBN 10 :	8187522003
E-ISBN 13 :	978-81-87522-00-3
Edition :	1
Pages :	192
Type of book :	Physical
Year :	2006
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 225.00
Categories :	Book Store, Learning Series, BASIC COMPUTER BOOKS
Condition Type :	New
Country Origin :	India

Product Description

Learning of a software is both easy and difficult. It depends up to what level you planning to learn. If you are learning only for the working use, then it is very easy. But, when you try to go deep into it, then you realize how difficult it is to master it. Networking is such a vast subject that it will take a lot of time to understand it fully. This book has been written in mind to make you aware of the options available in the software and how they can be used. It is like telling the child about the steps and stairs. You are the one who is to climb the stair. This book will just guide you how to use the stairs.

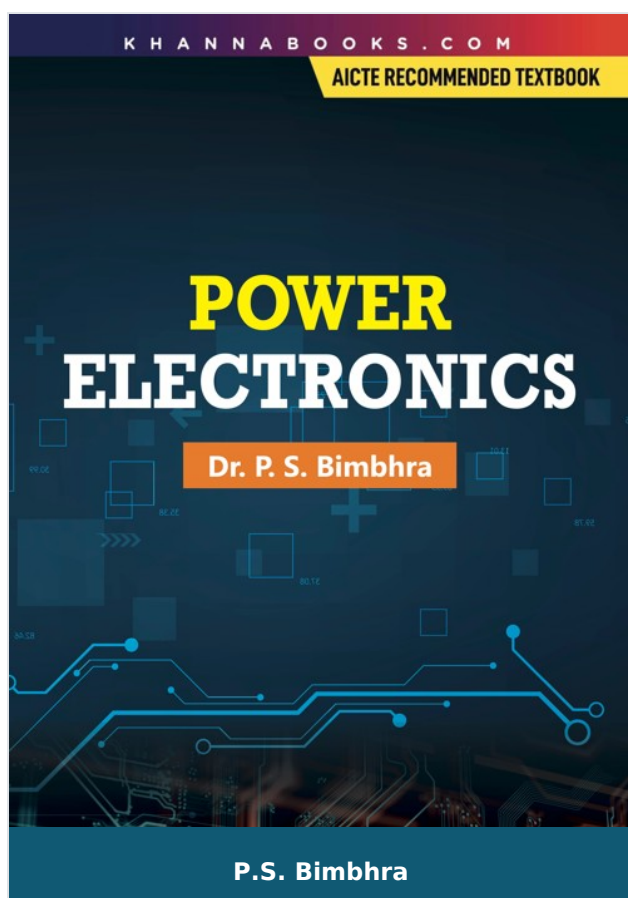
Table Of Contents

- Introduction to Networking
- Setting up the Cables
- Designing Your Network
- Configuring Windows for Networking
- Setting up Hardware for Internet
- Getting Connected to Internet
- Networking Software
- Glossary of Networking
- Questions

Author

Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools, Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle East and African countries.



Power Electronics

Author :	P.S. Bimbhra
ISBN 13 :	978-81-95123-12-4
ISBN 10 :	8195123120
E-ISBN 13 :	978-81-95123-12-4
Edition :	Seventh Revised
Pages :	1004
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	Electrical, Electronics & Communication Engineering, Book Store, Best Sellers
Condition Type :	New
Country Origin :	India

Product Description

This book is designed to serve as a textbook for the students of engineering studying a course on power Electronics. It provides a lucid and comprehensive treatment of the topics covered in the book.

A large number of illustrative figures and a wide variety of worked examples add to the clarity of subject matter. This book would be found suitable as a textbook for the students pursuing courses in the areas of the Electrical, Electronics, Instrumentation, Telecommunications and Mechatronics.

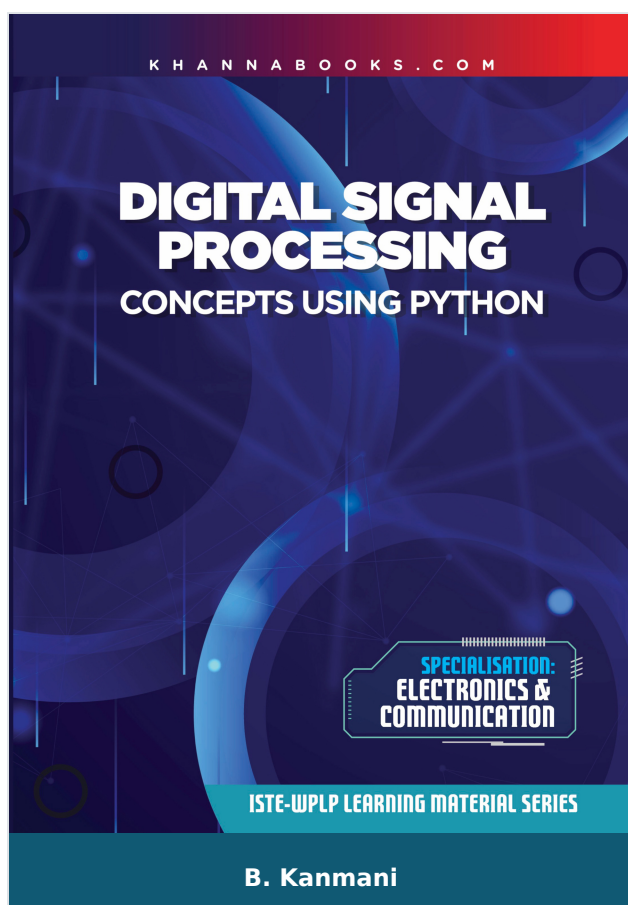
Table Of Contents

- Introduction
- Power Semiconductor Diodes and Diode Circuits
- Diode Rectifiers
- Power Transistors
- Thyristors
- Phase Controlled Rectifiers
- DC Choppers
- Inverters
- AC Voltage Controllers
- Cycloconverters
- Some Applications
- Electric Drives
- Power Factor Improvement
- Switching Mode DC-DC Converters
- Power Supplies
- Flexible AC Transmission Systems
- * Appendix A: Fourier Analysis
- * Appendix B: Laplace Transforms
- * Appendix C: Some Useful Functions
- * Appendix D: References
- * Index

Author

P.S. Bimbhra

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.



Digital Signal Processing Concepts Using Python

Author :	B. Kanmani
ISBN 13 :	978-93-55382-68-9
ISBN 10 :	9355382689
E-ISBN 13 :	978-93-55382-68-9
Edition :	1
Pages :	492
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 765.00
Categories :	Computer Science Engineering, Book Store, ISTE Series, Best Sellers
Condition Type :	New
Country Origin :	India

Product Description

In this book, we have addressed various concepts in the typical Under Graduate course on, 'Digital Signal Processing'. The focus is to have a quick overview of the intended concept. This book is not a replacement to the prescribed text book in the curriculum. However, through the examples illustrated, it helps comprehend the concept. In addition, every Chapter of the book is accompanied by the link to the Python code is developed on the Goggle Colaboratory and hence is an Open source programming environment. No prior knowledge of Python is essential; however, and experience in any programming language will prove useful. The programming approach is to be able to develop the code for the concept from the mathematical equation and avoid the use of in-built functions. We would like to add that, we are using Python, purely to help comprehend the signal processing concept and not develop and efficient Python code. Experienced programmers may build alternate and efficient code.

The motivation for coming out with this compilation, is because, students are usually introduced to the required pre-requisitions in earlier courses. For example, the 'Engineering Mathematics', course is likely to have introduced Calculus (integration, differential equation, difference equation), Laplace Transform, Fourier series, Fourier Transform, Z-Transform. The courses on 'Analog Electronic Circuits and 'Network Analysis', is likely to have introduced basic electronic circuits including resistors, capacitors, inductors and Operational amplifiers, that require the need to obtain the transfer function, the response to a given output. The student is usually introduced to another independent programming language (C/C++/ Python/Matlab /Sci-lab/ R programming/any other), where the emphasis is on the syntax of the language. In this Book, we provide a brief introduction to every pre-requisite; explain the concept, together with few examples for every concept. In addition, wherever applicable, different methods of arriving at the given solution are also included. The concept of Digital Signal Processing

is complete, even without any reference to Python. The reference to Python is purely for students to explore further.

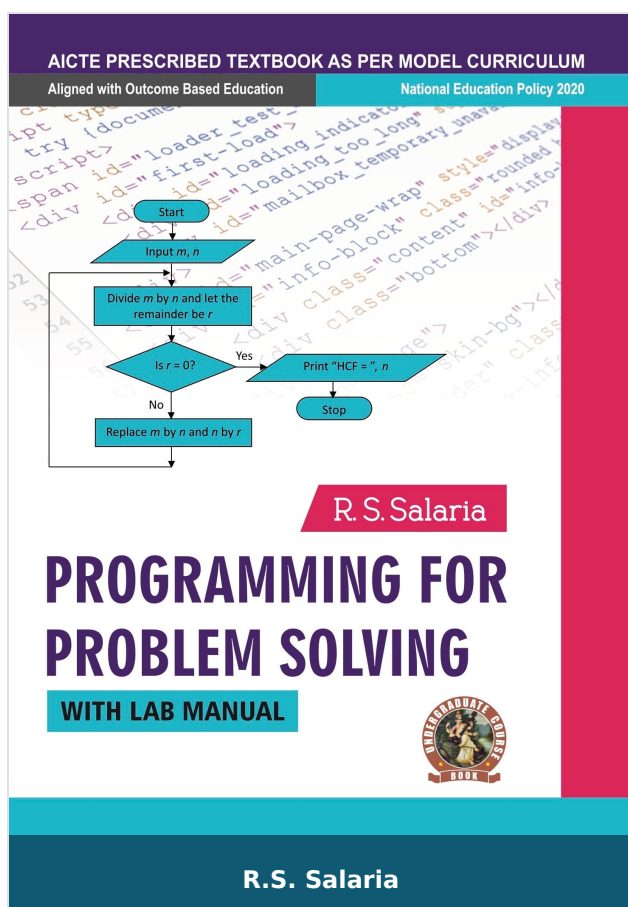
Table Of Contents

- PREFACE
- ACKNOWLEDGEMENT
- Digital Signals
- The Sampling Process
- Classification of Digital Systems
- Representation and Classification of Linear Time Invariant Systems
- Time Domain Analysis of Linear Time Invariant Systems
- Frequency Domain Analysis of Linear Time invariant Systems
- Design and Analysis of FIR Filters
- Analog Butterworth Filters
- Design and Analysis of IIR Filters

Author

B. Kanmani

Dr. B. Kanmani



Programming for Problem Solving (with Lab Manual)

Author : R.S. Salaria

ISBN 13 : 978-93-91505-21-9

ISBN 10 : 939150521X

E-ISBN 13 : 978-93-91505-21-9

Edition : First

Pages : 348

Type of book : Physical

Year : 2024

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [AICTE Prescribed Textbooks,](#)
[English Books, Book Store,](#)
[Ebooks, APPLIED SCIENCES &](#)
[HUMANITIES](#)

Condition Type : New

Country Origin : India

Product Description

This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate program in Engineering & Technology (BE/B. Tech). The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation. This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language. These aspects of the subject are well illustrated through enormous solved programming problems.

Salient Features:

1. Simple and lucid language that enables students to grasp the subject.
2. Demonstrates the elegant programming style.
3. 165+ ready to run programs for reference and to illustrate the program development process.
4. 135+ Short answer type questions to provide an opportunity for self-assessment of the fundamental concepts learned by answering them precisely.
5. 165+ multiple choice questions to provide an opportunity to synthesize the fundamental concepts.
6. 90+ Programming problems to provide an opportunity to harness programming skills.

Table Of Contents

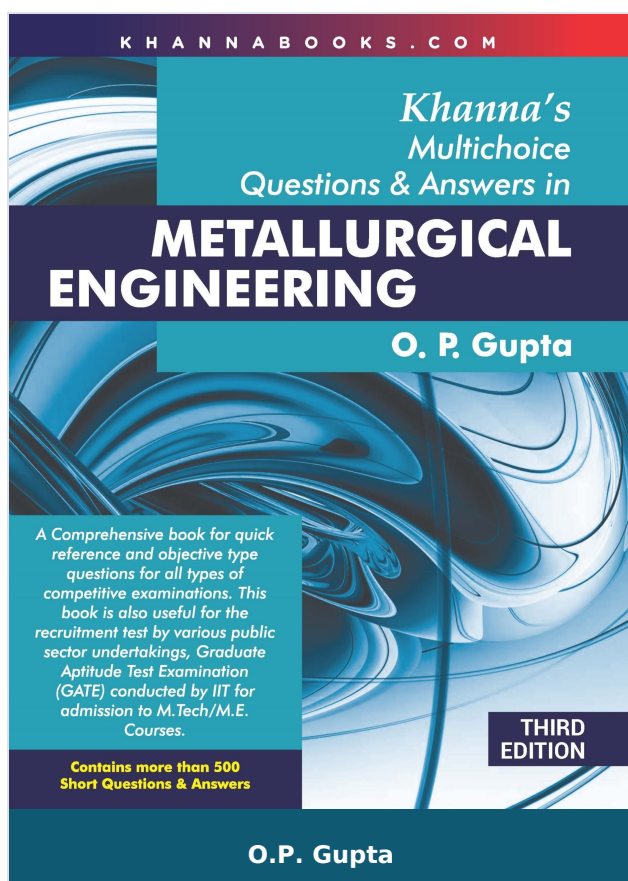
- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Programme Outcome (POs)
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Introduction
- to Programming
- Arithmetic
- Expressions and Precedence
- Conditional
- Branching and Loops
- Arrays
- Basic
- Algorithms
- Functions
- Recursion
- Structures

- Pointers
- File
- Handling
- References for further learning
- Co and PO attainment Table
- Index

Author

R.S. Salaria

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p>



Khanna's Multichoice Questions & Answers in Metallurgical Engineering

Author :	O.P. Gupta
ISBN 13 :	978-93-86173-11-9
ISBN 10 :	9386173115
E-ISBN 13 :	978-93-86173-11-9
Edition :	3
Pages :	1122
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P. :	Rs 499.00
Categories :	OBJECTIVE TYPE BOOKS, Metallurgical Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book is meant for diploma & degree student of metallurgical engineering for their academic programs as well as for various competitive examination for securing jobs. This book has been structured in three section. First section contains multiple choice type questions of various subjects of metallurgical engineering. Second section contains chapter wise question of GATE (Graduate Aptitude Test in Engineering) from 1991 to 2016. Third section contains SHORT QUESTIONS & ANSWERS in METALLURGICAL ENGINEERING. Fourth section contains APPENDICES containing Glossary of terms related to Metallurgical Engineering and Q&A of GATE-2017. This book has been designed to serve as "Hand Book of Metallurgical Engineering" which will be useful for various competitive examinations for recruitment in various public sector & Private Sector companies as well as for GATE Examination. Question have been arranged subject wise and answers are given at the bottom of the page.

Table Of Contents

- Section A – MCQ of Metallurgical Engineering
- General Metallurgy
- Mineral Dressing
- Iron Making
- Steel Making
- Extractive Metallurgy (Non-Ferrous)
- Mechanical Metallurgy
- Physical Metallurgy
- Materials Science
- Fuel Technology
- Furnace Technology
- Refractory Technology
- Foundry Metallurgy
- Welding Metallurgy
- Metallurgy of Nuclear Metals
- Electrometallurgy and Corrosion
- Metallurgical Testing & Inspection
- Metallurgical Analysis
- Physics of Metals
- Metallurgical Thermodynamics
- Metallurgical Kinetics
- Miscellaneous Questions
- Section B – MCQ of GATE (Graduate Aptitude Test in Engineering)

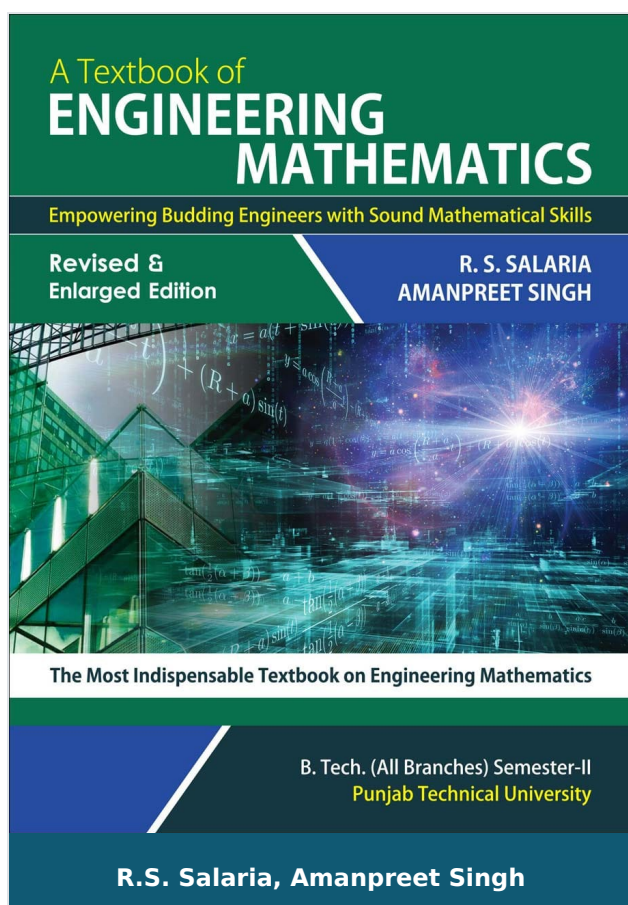
- General Metallurgy
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- Iron Making
- Steel Making
- Extractive Metallurgy (Non-Ferrous)
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- Physical Metallurgy
- Materials Science
- Fuel Technology
- Refractory Technology
- Foundry Metallurgy
- Welding Metallurgy
- Electrometallurgy and Corrosion
- Metallurgical Thermodynamics
- Metallurgical Kinetics
- Miscellaneous Questions
- GATE- 2017
- Section- C Short Questions & Answers in Metallurgical Engineering
- Glossary

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.



A Textbook of Engineering Mathematics (PTU-II)

Author : R.S. Salaria, Amanpreet Singh

ISBN 13 : 978-93-82609-91-9

ISBN 10 : 9382609911

E-ISBN 13 : 978-93-82609-91-9

Edition : 1

Pages : 556

Type of book : Physical

Year : 2016

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 350.00

Categories : [APPLIED SCIENCES & HUMANITIES, Book Store,](#)
[APPLIED SCIENCES & HUMANITIES](#)

Condition Type : New

Country Origin : India

Product Description

The subject of Engineering Mathematics is an integral part of the course curriculum of bachelor of Engineering/Technology (BE/B. Tech) Program of All Indian Universities, and is taught in first and/or second semester(s). The present state of teaching and learning of Mathematics is not that encouraging. A lot has to be done on both the fronts.

The book in your hand is a first step of our commitment to uplift the standard of teaching and learning of Mathematics. We assure you that in our continuous journey in this endeavor and with your whole hearted support, we hope to make significant contribution in the teaching and learning of Mathematics. We hope to see that day when we hear from our students that Mathematics is wonderful subject and you all are relishing it.

This book is designed to serve as a textbook for the students of B. Tech. (All Branches) Semester-II of Punjab Technical University, Jalandhar.

While Writing, due care is taken to present the subject matter in a simple and illustrative manner so that a reader can grasp it with quite ease and can built basis and conceptual knowledge in the subject.

Table Of Contents

- Useful Formulae, Theorems and Results
- Ordinary Differential Equations of First Order
- Liner Ordinary Differential Equations of Second and Higher Order
- Applications of Differential Equations
- Linear Algebra
- Infinite Series
- Complex Numbers

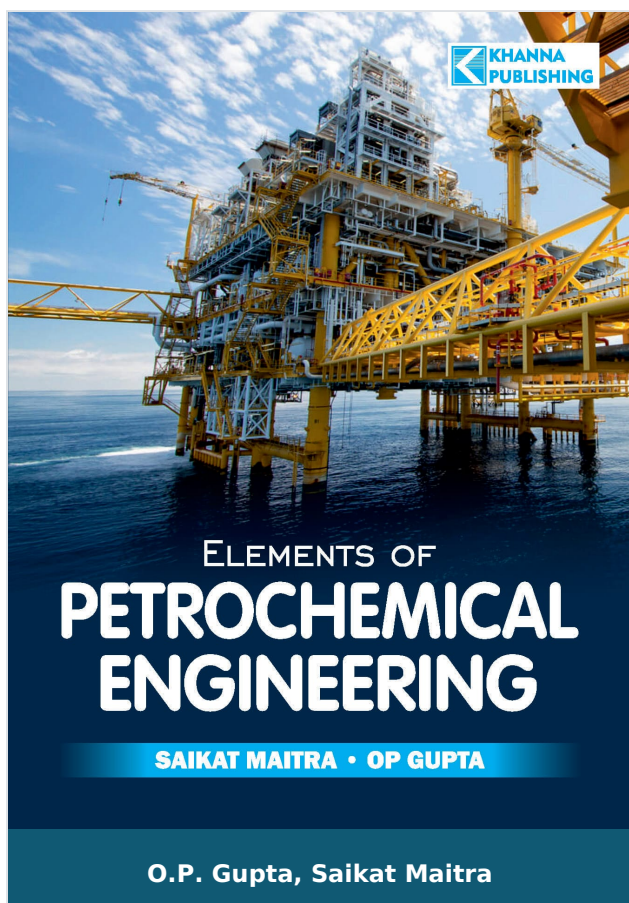
Author

R.S. Salaria

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p>

Amanpreet Singh

Amanpreet Singh Amanpreet Singh SGTB Khalsa College, Anandpur Sahib, Formerly with Rayat-Bahra Institute of Engineering& Nano Technology, Hoshiarpur.



Elements of Petrochemical Engineering

Author : O.P. Gupta, Saikat Maitra

ISBN 13 : 978-93-86173-36-2

ISBN 10 : 9386173360

E-ISBN 13 : 978-93-86173-36-2

Edition : First

Pages : 424

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Year : 2020

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 425.00

Categories : [Chemical Engineering, Book Store](#)

Condition Type : New

Country Origin : India

Khanna Publishing House

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

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

Product Description

Elements of Petrochemical Engineering book is meant for the students, teachers and practicing Engineers. This book contains the manufacture, properties and applications of important petrochemicals. Important information's about feedstocks and applications of petrochemical derived products, status of Indian Petrochemical Industry and environment standards for the petrochemical plant are given in the appendices. It also contains short questions and answers and multiple choice questions and answers drawn from examination papers of various engineering colleges for the benefits of the students.

The book is targeted to benefit the following :

Diploma in Engineering Students, Degree in Engineering Students, AMIE AMIIM, AMIICHE students, Faculty members and teaching staff, Practicing Engineers/Professionals. Latest and updated information/ data/statistics pertaining to the subject matter has been included in the edition for the benefit of the readers.

Table Of Contents

- Introduction to Petrochemicals
- Production of Methanol (Methyl Alcohol)
- Production of Formaldehyde from Methanol(Methyl Alcohol)
- Production of Chloromethanes by Direct Chlorination of Methane (CH
- Manufacture of Trichloroethylene (C1HC = CCl
- Manufacture of Perechloroethylene (Cl
- Cl = CCl
- Production of Ethylene (CH
- = Ch
- Manufacture of Ethylene Dichloride (EDC) and Vinyl Chloride Monomer (VCM)
- Production of Ethylene Oxide (EO)
- Manufacture of Ethanolamines
- Manufacture of Propylene (C
- Production of Isopropanol (Iso-Propyl Alcohol) from Propylene
- Manufacture of Acetone by Dehydrogenation of Iso-Propanol
- Manufacture of Cumene (Isopropyl Benzene from Propylene)
- Production from Acrylonitrile from Propylene
- Production of Isoprene from Propylene
- Manufacture of Epichlorohydrin and Proplene Oxide
- Production of Aldehydes, Alcohols, Carboxylic Acid by Oxy-Processing of Olefins
- Manufacture of Butadeine (C
- Important Aromatic Compounds-Benzene, Tolune & Xylene (BTX)
- Production of Benzene and Toluene

- Production of Benzene by Hydrodealkylation of Toluene
- Manufacture of Xylene
- Manufacture of Phenol from Cumene
- Manufacture of Phenol from Toluene Oxidation
- Manufacture of Phenol from Hydrochlorination of Benzene
- Manufacture of Phenol from Chlorobenzene
- production of Styrene from Benzene
- Production of Phthalic Anhydride from Naphthalene or O-Xylene
- Production of Maleic Anhydride (C
-) from Benzene
- Production of Terephthalic Acid (TPA) & Dimethyl Terephthalate (DMT)
- Production of Toluene Di-Isocyanate (TDI)
- Fundamentals of Polymerisation Technology
- Polymer Processing Technologies
- Appendix A : Petrochemicals Feedstocks, Products & Applications
- Appendix B : Uses of Petrochemicals in Various Sectors
- Appendix C : All About Indian Petrochemical Industry
- Appendix D : Indian National Emission Standards for Petrochemical Plants
- Appendix E : Glossary of Terms Related to Petrochemical Engineering
- Appendix F : Bibliography/References/Further Reading
- Appendix G : Objective Type Questions and Answers
- Appendix H : Short Questions and Answers

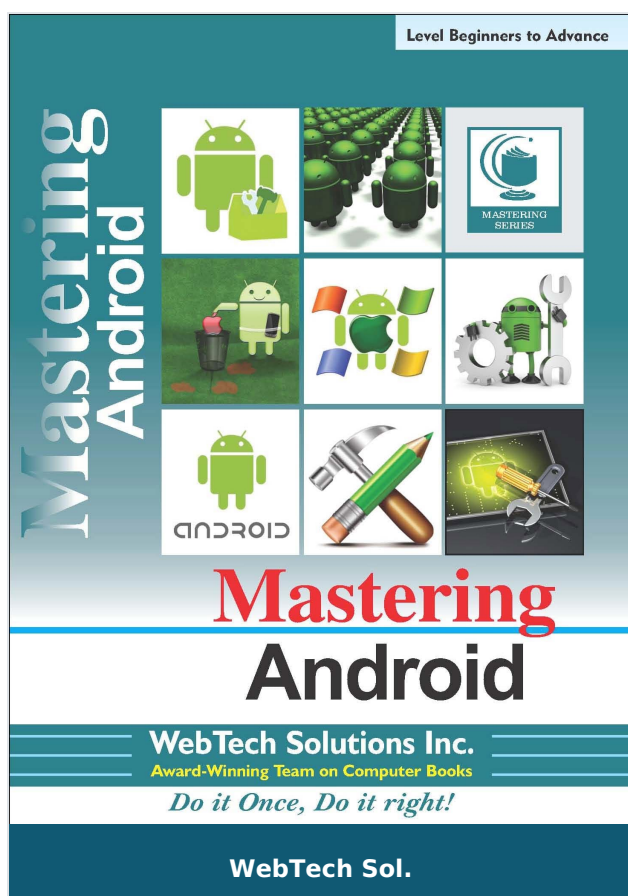
Author

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.

Saikat Maitra

Prof. Saikat Maitra is presently working as the Vice Chancellor of Maulana Abul Kalam Azad University of Technology, West Bengal (formerly West Bengal University of Technology). He did his B.Sc (Honours in Chemistry) from the Presidency Colleges, Kolkata, B.Tech, M.Tech and Ph.D in Chemical Technology from the University of Calcutta. He is a Chartered Chemical Engineer and Fellow of Institute of Engineers (India). Prof. Maitra earlier worked as Professor and Principal-in-Charge at Government College of Engineering; Ceramic Technology, Associate Professor at University Technology Petronas, Malasiya and as Scientist at Central Fuel Research Institute, Dhanbad. He has worked in industries too. Prof. Maitra published 150 research papers in different national & international journals, presented 60 papers in different conferences, filed two patents, authored three books and three book chapters. He has guided twelve Ph.D students, completed several funded research projects, organized several training programmes and workshops. He visited many countries like US, Australia, Italy, Malasiya, Singapore, Thailand, Bangladesh, Baharain etc for delivering lecturers.



Mastering Android

Author : WebTech Sol.

ISBN 13 : 978-93-81068-90-8

ISBN 10 : 9381068908

E-ISBN 13 : 978-93-81068-90-8

Edition : First

Pages : 356

Type of book : Physical

Year : 2013

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [Book Store, Mastering Series, ADVANCE COMPUTER BOOKS](#)

Condition Type : New

Country Origin : India

Product Description

WebTech solutions Inc. is one of the pioneers of the technology industry. WebTech solution Inc. is a leading IT development company bringing the latest technologies in a short span of time. Its professional research team aims to deliver the latest information on the best way to analyze, develop, test, debug and tune best development skills including technical coding and theoretical concepts of IT. Its main aim is committed to excellence; excellence in its range and quality of publishing; excellence in dedication to its authors and excellence in the service it provides to the readers. By way of this book, Mastering PHP has become faster and easier as all the relevant information and step-by-step approach has been followed in simple plain English. It is designed very systemically and logically. The basic concepts have been taught in-depth with lots of examples and screen shots. A large number of unsolved as well as solved exercises have been included for the benefit of the readers.

Table Of Contents

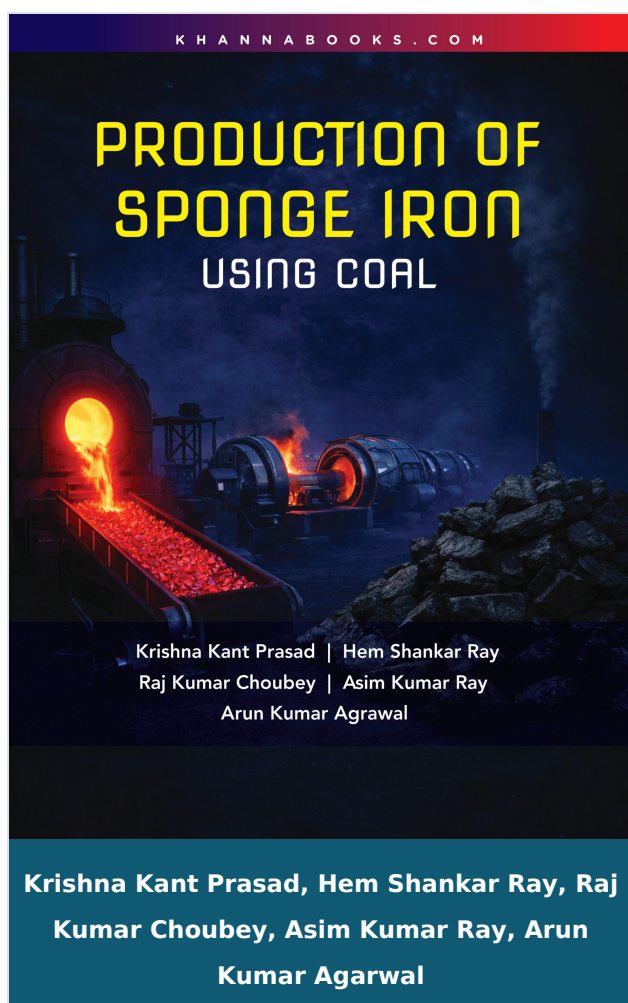
- Introduction to Android
- Introduction to Android Project
- Creating an Application using XML
- Working with Widgets and Containers
- Working with Lists
- Fancy Widgets and Containers
- Working with Frameworks Menus, Fonts and Browsers
- Working with Messages and Threads
- Working with Activity Life Cycle Events Filters and Subactivities
- Defining and Using Styles
- Working with Tablets
- Data Stores and Services
- Services
- Android Capabilities
- Application Environments
- Appendix

Author

WebTech Sol.

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Production of Sponge Iron Using COAL

Author : Krishna Kant Prasad, Hem Shankar Ray, Raj Kumar Choubey, Asim Kumar Ray, Arun Kumar Agarwal

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Product Description

Production of Sponge Iron Using COAL

Production of Sponge Iron using Coal: Rotary Kiln, Tunnel Kiln and using Gas from Coal is a definitive technical guide that explores India's global leadership in the coal-based direct reduction of iron ore. While international markets often rely on gas-based shaft processes, this book highlights how India has pioneered and perfected the use of rotary kilns to utilize abundant, high-ash non-coking coal-resources often dismissed by foreign experts as "muck". The text provides an exhaustive analysis of the thermodynamic, kinetic, and aerodynamic principles that govern the solid-state reduction of iron oxides.

The book serves as a vital bridge between theoretical research and industrial application, documenting decades of expertise from leading metallurgists. It broadens the traditional focus on rotary kilns to include emerging commercial successes in tunnel kiln technology and coal gasification-based shaft furnaces. Beyond technical specifications, the authors connect modern engineering with India's ancient metallurgical heritage, such as the storied Iron Pillar of Delhi. This work is an essential resource for metallurgical students, researchers, industry professionals, and entrepreneurs seeking to understand the economic and technical nuances of sustainable ironmaking in coal-rich regions.

Salient Features

- **Rotary Kiln Dominance:** Detailed analysis of the rotary kiln's primary role in India, covering its versatility in processing lump hematite and its unique operational strengths and weaknesses.
- **Scientific Process Modeling:** Comprehensive chapters on mathematical modeling, CFD analysis, and reaction kinetics that allow for precise control over heat transfer and solid movement.

- **Alternative Reduction Technologies:** In-depth exploration of tunnel kilns as a viable solution for reducing magnetite and iron ore fines, filling a critical gap in traditional kiln operations.
- **Coal Gasification Insights:** Evaluation of the economic and technical feasibility of converting coal into reducing gas (CO and H) to supplement production in shaft furnaces.
- **Resource Optimization:** Strategies for utilizing high-ash Indian coal and recirculating char to enhance energy efficiency and reduce the environmental footprint of ironmaking.
- **Practical Engineering Focus:** Guidance on plant design, refractory management, and overcoming common industrial hurdles like accretion or "ring formation" inside kilns.
- **Historical Contextualization:** A unique addendum on India's ancient ironmaking legacy, offering a perspective on the longevity and evolution of sponge iron technology.
- **Future-Ready Strategies:** Critical projections on hydrogen-based ironmaking and the integration of sponge iron into blast furnaces to reduce costly metallurgical coke consumption.

Table Of Contents

- Glossary
- Introduction: Why, How & from Where?
- Return of Sponge Iron Making: Rotary Kiln rules in India
- Thermodynamic Considerations: Feasibility of Reactions
- Aerodynamics Inside a Sponge Iron Rotary Kiln: An Eye Opener
- Mathematical Modelling in Rotary Kiln Sponge Iron Making Precisely Controlling the Process
- Physical Movement of solids Inside a Rotary Kiln: Tumbling of Solids and Coal Throwing/Slinging
– Modeling Continued
- Requirement, Generation and Transfer of Heat in a Sponge Iron Rotary Kiln: Coal is the Key!
- Reaction Kinetics: A Lot Remains to Be Understood
- Raw Materials for Sponge Iron Making: In A Rotary Kiln, Tunnel Kiln and Shaft
- Accretion Or Ring Formation Inside a Rotary Kiln: Fusion Stalls the Process
- Process Design, Engineering and Operational Aspects of an RK-DR Plant
- Other Uses of Rotary Kiln for Reduction Purposes
- Environmental Aspects of Sponge Iron Making in Rotary Kiln
- Obtaining A Reducing Gas from Coal
- Producing Sponge Iron in a Shaft Furnace
- Producing Sponge Iron in a Tunnel Kiln
- A Comparison of the Sponge Irons Produced from Different Sources and Processes
- Re-Oxidation and Auto-Ignition Properties of Sponge Iron: How to Protect During Storage, Handling and Transportation
- Uses of Sponge Iron
- Future of Sponge Iron: Reading the Crystal Ball

- Addendum

Author

Krishna Kant Prasad

Dr. Krishna Kant Prasad (born on 24th January 1945 in Bhagalpur, Bihar), after completing B.Sc. Hons. (Chem.) from Bhagalpur University, he did his B.E., M.E. and Ph.D. in Metallurgical Engineering from the Indian Institute of Science, Bangalore. After brief teaching stints at the Banaras Hindu University and MR Engineering College, Jaipur he joined R&D Division of Tata Steel, Jamshedpur in 1972. He moved to RDCIS, SAIL, Ranchi in 1981 as in-charge of R&D activities in the Sponge Iron Pilot Plant Complex and since then he was actively involved in steering R&D activities both in Sponge Iron Making and Alternate Iron Making areas. He retired from SAIL, in January 2006. Thereafter, he served as a visiting professor in the Department of Metallurgical Engineering in IT (now IIT), BHU, Varanasi, for two and then joined NITK (National Institute of Technology Karnataka) in Surathkal, initially as the Ministry of Steel Chair Professor, and then in various capacities - all equivalent to a visiting professor - for seven and a half years. Dr. Prasad has guided four Ph.D. students. He has to his credit over 130 research papers, five registered copyrights and holds two patents on sponge iron making. He has authored four books entitled Sponge Iron Making in Rotary Kiln, Chemical and Metallurgical Thermodynamics, Advances in Rotary Kiln Sponge Iron Plant and Integrated Iron- and Steelmaking. He has also edited two books - "Trends in Beneficiation and Agglomeration of Iron Ore" and 'Steel Plant Technologies: An Overview. He is life member of the Indian Institute of Metals, Electrochemical Society of India and the Computer Society of India. E-mail: kkpmpnc@gmail.com. Professor

Hem Shankar Ray

Hem Shankar Ray (born on 19th June 1940, Jabalpur, Madhya Pradesh) unfortunately left for his heavenly abode on 28th April 2023 just as the preparation of the manuscript

started. Prof. H. S. Ray is widely regarded as one of the greatest minds of the Indian scientific community and a very well-known name in the field of Extractive Metallurgy. He obtained his B.Tech. (Hons.) in Metallurgical Engineering from the Indian Institute of Technology, Kharagpur (1962) and M.A.Sc. and Ph.D. degrees from the University of Toronto, Canada (1963, 67). He was with I.I.T. Kanpur from 1967-80 as Lecturer and Asst. Professor. In between he served as Manager/Senior Technologist - Research and Development, Pilkington Research Centre, Lathom, England (1977-1979). He then served as Professor of Metallurgical Engineering (1980-1990) and Dean of Students Affairs (1988-90) at the Indian Institute of Technology, Kharagpur. Prof. Ray served the Regional Research Laboratory, Bhubaneswar (now IMMTD) as Director from 1990-2000 (two terms). On retirement he served as an Emeritus Scientist at the Central Glass and Ceramic Research Institute, Calcutta. He holds several patents including 2 U.S. patents to his credit. His areas of interest included thermal analysis, kinetics, extractive metallurgy, energy and R&D administration. He guided about 40 Ph.D. students and 20 M.Tech. students for their thesis work. He has published about 500 papers in reviewed journals and conference proceedings and over 26 books. He also edited 15 Conference proceedings and written about 50 technical reports. He also wrote numerous other non-technical articles, editorials, etc. Prof. Ray received several awards in recognition of his work and these include the National Metallurgists Day Award, G.D. Birla Award and two Kamani Gold Medals of the Indian Institute of Metals. He received the Distinguished Alumni award from IIT Kharagpur, which, interestingly, he shared that year with the Google CEO, Sundar Pichai. He served several companies and R&D laboratories as consultant or member of Boards/Research Councils. He was associated with several Professional Bodies and served as President, Indian Institute of Mineral Engineers and Indian Thermal Analysis Society; also, as a Vice President of the Millennium Institute of Energy and Environment Management and was an Editor of a popular science magazine Everyman's Science. He also served in several other institutions in various capacities. He was deeply involved with professional bodies such as IIM (Indian Institute of Metals),

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Raj Kumar Choubey

Raj Kumar Choubey , was born on August 11, 1954 at Sikariya, Bhojpur, Bihar (unfortunately he passed away on February 19, 2024). He passed B.Sc. from the University of Burdwan in 1974 and Bachelor of Engineering from MREC (now MNIT) in Jaipur Rajasthan in the year 1980. He joined M/s Jaipur Metals and Electricals in 1980 and operated the first induction furnace of India. In 1982 he joined M/s Hindustan Motors and served till the year 2000. There he developed various grades of automobile grade steel and was a part of the team who fabricated the first Diesel Engine for automobiles in India. Thereafter he decided to be a start-up entrepreneur. His portfolio lately read: Owner -

Metcon Power Consultant & Engineers, Kolkata, having global clients base including Tata Steel and Jindal Steel. Director - Bhagwati Power & Steel Limited, Raipur, CG. Director - RNT Medicare Private Limited, Kolkata. Partner - Premier Hygienic Services, Kolkata. He involved himself in innovation and setting up commercial plants based on self developed technology for: Manufacturing DRI (Sponge Iron) from Mill Scale, DRI through Tunnel Kiln Technology, Development of Metallic Saggars for reduction of Iron Ore, Process for reduction of Chromite Ore at lower temperature, Extraction of liquid fuel from waste plastic, Recycling of Steel Plant wastes Development of Binders for agglomeration
Address: Metcon House, North Bazar, Post: Andal - 713321, District: Paschim Bardhman, West Bengal. Email: choubey@metconpower.in, Website: www.metconpower.in. Dr.

Asim Kumar Ray

Dr. Asim Kumar Ray was born at Calcutta in 1952. He graduated with Honours in Chemical Engineering from Jadavpur University in 1974. He did his Masters in Chemical Engineering from IIT Kanpur and Ph. D. in Metallurgical Engineering from IIT Kharagpur. After a brief stay of about one and a half year each at Indian Iron and Steel Company, Burnpur and Indian Oil Corporation, he joined Research & Development Centre for Iron & Steel (RDCIS), SAIL, Ranchi in 1978. After a long stay at RDCIS, SAIL, Ranchi, he assumed charge of General Manager (Quality) at Durgapur Steel Plant (DSP), SAIL in 2008. Dr Ray was instrumental in commissioning Sponge Iron Pilot Plant and associated Process Research Laboratory and carried out R & D activities related to Sponge Iron & other Alternate Iron Making processes, Steelmaking and Continuous Casting. He established Computational Laboratory at RDCIS and carried out mathematical and physical simulation of different metallurgical processes. He steered several projects on process improvement and product development in all SAIL plants. Under his leadership, DSP had received several awards on Quality including prestigious Golden Peacock Award on Quality -2010 of Institution of Directors (IOD). Dr. Ray retired from SAIL in December 2012. Presently, Dr. Ray is with M/s Lechler (India) Pvt. Ltd. Dr. Ray has co-authored the Book on "Rotary

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Development of Metallic Saggars for reduction of Iron Ore, Process for reduction of Chromite Ore at lower temperature, Extraction of liquid fuel from waste plastic, Recycling of Steel Plant wastes Development of Binders for agglomeration Address: Metcon House, North Bazar, Post: Andal - 713321, District: Paschim Bardhaman, West Bengal. Email: choubey@metconpower.in, Website: www.metconpower.in. Dr. Asim Kumar Ray was born at Calcutta in 1952. He graduated with Honours in Chemical Engineering from Jadavpur University in 1974. He did his Masters in Chemical Engineering from IIT Kanpur and Ph. D. in Metallurgical Engineering from IIT Kharagpur. After a brief stay of about one and a half year each at Indian Iron and Steel Company, Burnpur and Indian Oil Corporation, he joined Research & Development Centre for Iron & Steel (RDCIS), SAIL, Ranchi in 1978. After a long stay at RDCIS, SAIL, Ranchi, he assumed charge of General Manager (Quality) at Durgapur Steel Plant (DSP), SAIL in 2008. Dr Ray was instrumental in commissioning Sponge Iron Pilot Plant and associated Process Research Laboratory and carried out R & D activities related to Sponge Iron & other Alternate Iron Making processes, Steelmaking and Continuous Casting. He established Computational Laboratory at RDCIS and carried out mathematical and physical simulation of different metallurgical processes. He steered several projects on process improvement and product development in all SAIL plants. Under his leadership, DSP had received several awards on Quality including prestigious Golden Peacock Award on Quality -2010 of Institution of Directors (IOD). Dr. Ray retired from SAIL in December 2012. Presently, Dr. Ray is with M/s Lechler (India) Pvt. Ltd. Dr. Ray has co-authored the Book on "Rotary Kiln Sponge Ironmaking". He has to his credit about 140 research publications and three patents. Shri Arun Kumar Agrawal , born in 1963, is a 1985 metallurgical engineering graduate from the then Institute of Technology, Banaras Hindu University (IT-BHU - now IIT-BHU), Varanasi. He joined MECON Limited, Ranchi in the year 1986 as Management Trainee (Technical) after one year stint in Hindustan Aluminium Co. (Hindalco - Aditya Birla Group) at Renukoot in Uttar Pradesh. He joined the Iron Making Division of MECON and was deeply involved in the basic engineering and design, detailed engineering, consultancy and project management as

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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.

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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Deepak Singh