

Engineering Chemistry S S Dara

The book in its present form is due to my interaction with the students for quite a long time. It had been my long-cherished desire to write a book covering most of the topics that form the syllabi of the Engineering and Science students at the degree level. Many students, although able to understand the various topics of the books, may not be able to put their knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

Instrumental methods of analysis have become very popular in industrial and research laboratories due to their rapidity, accuracy, precision, convenience and amenability for automation and computerisation. Although engineers are not expected to carry out hemical analysis by themselves, it is absolutely essential for them to have appreciation regarding the principles, applications, merits and limitations of the modern techniques of instrumental chemical analysis.

"Advanced Engineering Mathematics" is written for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

Advanced Engineering Mathematics, 22e
 Publisher's Monthly

Environmental Chemistry

A Textbook in Engineering Chemistry

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

The challenge for today's new chemistry graduates is to meet society's demand for new products that have increased benefits, but without detrimental effects on the environment. Green Chemistry: An Introductory Text outlines the basic concepts of the subject in simple language, looking at the role of catalysts and solvents, waste minimisation, feedstocks, green metrics and the design of safer, more efficient, processes. The inclusion of industrially relevant examples throughout demonstrates the importance of green chemistry in many industry sectors. Intended primarily for use by students and lecturers, this book will also appeal to industrial chemists, engineers, managers or anyone wishing to know more about green chemistry.

S. CHAND'S ENGINEERING CHEMISTRY.

A TEXTBOOK OF ENGINEERING CHEMISTRY

Thermodynamics and Kinetics, Second Edition

Basic of Engineering Chemistry (For RGPV, Bhopal)

This book on Engineering Chemistry has been entirely rewritten in order to make it up-to-date and modern, both in approach and content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the various universities of India, topics like transition metals, coordination compounds, crystal field theory, gaseous and liquid states, adsorption, flame photometry, fullerenes, composites, mechanism of some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A large number of solved numerical examples drawn from various university examinations have been given at the end of theoretical part of each chapter. Questions have been drawn from latest examinations of various universities.

S. Chand's Applied Chemistry

A Textbook of Engineering Chemistry Basic of Engineering Chemistry (For RGPV, Bhopal) S. Chand Publishing

A Textbook of Environmental Chemistry and Pollution Control

A Textbook of Workshop Technology

An Introductory Text

Exploring the Marvelous Materials That Shape Our Man-Made World

Now in its seventh edition, **Basic Engineering Mathematics** is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

The book has been designed according to the new AICTE syllabus and will cater to the needs of engineering students across all branches. The book provides the basis which is necessary for dealing with different types of physicochemical phenomena. Great care has been taken to explain the physical meaning of mathematical formulae, when and where they are required, followed by lucid development and discussion of experimental behaviour of systems. Every chapter has a set of solved problems and exercises. The idea is to instil sound understanding of the fundamental principles and applications of the subject. The author is known for explaining the concepts of Engineering Chemistry with full clarity, leaving no ambiguity in the minds of the readers. Although this book is primarily intended for B.Tech/BE students, it will also cater to the requirements of those pursuing B.Sc and M.Sc, including those of other disciplines like materials science and environmental science.

Textbook of Environmental Chemistry has been designed to provide fundamental knowledge of the principles related to environment and its chemistry so as to meet the challenging requirements of students as well as teachers of Environmental Sciences, Environmental Chemistry and Environmental Studies at graduate, postgraduate, polytechnic, and engineering levels at all Indian Universities. This book is also useful for the students and professors of general science. The book explores biological resources and their relationship with physical and chemical aspects of the environment. Due emphasis has been given to the regional as well as global environmental problems like water, air, soil and noise pollution, their types and sources, effects on the ecosystem. Key Features * The book deals with principles and chemical reactions that govern the behaviour of water, air and soil environment. * The book emphasizes on the origin of various pollutants and their control. * New and current fields of environmental science - Green Chemistry, Environmental Biotechnology, Polymers for Environment. * It covers environmental impact, planning and laws to help readers understand how policies and plans are formulated to protect our environment. * Environmental pollution abatement engineering and technology has been discussed in-depth

Modern Engineering Physics

Indian Books in Print

Stuff Matters

S. Chand's Applied Chemistry Volume - 1 (For 1st Semester of Mumbai University)

*This Book Has Been Thoroughly Revised And Updated In Its Present Sixth Edition. Striking A Neat Balance Between Environmental Chemistry And Environmental Chemical Analysis, The Book Explains The Various Dimensions Of Environmental Chemistry Including Latest Concepts And Developments In The Subject With Global And User-Friendly Approach. Notable Additions/Features In The New Edition Are: * New Chapter 5 On Environmental Biochemistry. * Separate Chapter 10 On Waste Treatment And Recycling After Recasting From Chapters 4 And 9. * New Sub-Section (1.1) (Chapter 1) On The Dawn Of The Universe And Of Time, Setting A New Tone To The Book. * Carbon Cycle. * Latest Natural Disasters Tsunami, Hurricane Katrina. * Latest About Antarctica And Gangotri Glacier. With All These Inputs, This Book Will Scale New Heights Of Popularity In The Academic Community Comprising B.Sc. And M.Sc. Students Of Chemistry And Biochemistry As Well As Teachers In The Respective Subject. As Before, Scientists, Engineers And Researchers Will Find It A Valuable Reference Source In Their Profession.*

Completely revised and updated, Elements of Environmental Engineering: Thermodynamics and Kinetics, Second Edition covers the applications of chemical thermodynamics and kinetics in environmental processes. Each chapter has been rewritten and includes new examples that better illuminate the theories discussed. An excellent introduction to environmental engineering, this reference stands alone in its multimedia approach to fate and transport modeling and in pollution control design options. Clearly and lucidly written, it provides extensive tables, figures, and data that make it the reference to have on this subject.

Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.

Concepts of Modern Engineering Physics

University Chemistry, 4/E

Chemistry-I (As per AICTE)

Engineers And Scientists Are Required To Master Chemical Principles Because Many Of The Problems They Encounter Involve Chemical Processes Or The Composition And Properties Of Materials. This Book Is Designed To Present The Fundamental Concepts Of Chemistry As They Relate To Modern Engineering Applications. As An Up-To-Date Reference It Can Be Used By Practicing Engineers, Or As A Text In Standard University Courses In Engineering Chemistry, Chemical Engineering, And Chemistry For Engineers. It Has Been Divided Into Sixteen Chapters Covering All The Subjects Of Engineering Chemistry Such As Inorganic, Organic, Synthetic, Physical, Applied, Industrial, Spectroscopic And Environmental. Applications Of Modern Chemical Theory, Illustrations, Examples, And Exercises Have Been Included.

A world-leading materials scientist presents an engrossing collection of stories that explain the science and history of materials, from the plastic in our appliances to the elastic in our underpants,

revealing the miracles of engineering that seep into our everyday lives. 25,000 first printing.

The Progress and Prosperity of any country mainly depend upon the quality of its human resource, which in turn, depends upon the quality of its educational system. Higher and technical education, being at the apex of the pyramid of education, play a major role in the overall development of any country. One of the major drawbacks of the higher and technical education in our country, is the palpable gap between the world of learning and the world of work.

Standardization of Potassium Permanganate Solution by Sodium Oxalate

Higher Engineering Mathematics

Engineering Chemistry (PtU)

Thermodynamics

A Textbook of workshop Technology (Manufacturing Processes) to the students of degree and diploma of all the Indian and foreign universities. The object of this book is to present the subject matter in a most concise, compact, to the point and lucid manner. While writing the book, we have constantly kept in mind the various requirements of the students. No effort has been spared to enrich the book with simple language and self-explanatory diagrams. Every care has been taken not to make the book voluminous, as the students have also to face other subjects of equal importance.

The focus of Thermodynamics: Concepts and Applications is on traditional thermodynamics topics, but structurally the book introduces the thermal-fluid sciences. Chapter 2 includes essentially all material related to thermodynamic properties clearly showing the hierarchy of thermodynamic state relationships. Element conservation is considered in Chapter 3 as a way of expressing conservation of mass. Constant-pressure and volume combustion are considered in Chapter 5 - Energy Conservation. Chemical and phase equilibria are treated as a consequence of the 2nd law in Chapter 6. 2nd law topics are introduced hierarchically in one chapter, important structure for a beginner. The book is designed for the instructor to select topics and combine them with material from other chapters seamlessly. Pedagogical devices include: learning objectives, chapter overviews and summaries, historical perspectives, and numerous examples, questions and problems and lavish illustrations. Students are encouraged to use the National Institute of Science and Technology (NIST) online properties database.

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Concepts and Applications

Textbook of Environmental Chemistry

A Textbook of Engineering Physics

A Textbook of Engineering Chemistry

Engineering Chemistry is designed as a textbook for first year undergraduate engineering students. Besides covering the revised AICTE syllabus, it fulfils the syllabus requirements of universities across India. Divided into two parts, the book provides a comprehensive treatment of important topics related to basic and applied chemistry.

B.Sc. Practical Physics

Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase between the principles of chemistry and engineering. KEY FEATURES * Chapters cover both basic principles and applied aspects. * Written in easy self-explanatory language and in depth at the same time. * Review questions provided at the end of each chapter. * A separate section 'Laboratory Manual' in Engineering Chemistry comprising 12 experiments is appended at the end of the book.

Basic Engineering Mathematics

A Textbook of Engineering Chemistry (For 1st Semester of Anna University)

B.Sc. Practical Physics

Chemistry for Engineers

Water And Its Industrial Applications | Fuels And Combustion | Lubricants | Cement And Refractories | Polymers | Instrumental Techniques In Chemical Analysis | Water Analysis Techniques | Question Bank

Although Concepts of Modern Physics was the first book covering the syllabi of Punjab Technical University, Jalandhar and it was accepted whole-heartedly by students and teachers alike. However, due to the repeated changes of syllabi of P.T.U. as it being a new university, the book had to be revised and some of the chapters become redundant as these were replaced by new topics. Though the book was revised with the additional chapters, the discarded chapters also formed the part of the book.

A Textbook of Engineering Chemistry

Engineering Chemistry

Green Chemistry

Chemistry for Engineering Students

Fundamentals and Applications

CHEMISTRY FOR ENGINEERING STUDENTS, connects chemistry to engineering, math, and physics; includes problems and applications specific to engineering; and offers realistic worked problems in every chapter that speak to your interests as a future engineer. Packed with built-in study tools, this textbook gives you the resources you need to master the material and succeed in the course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Chemistry is an interdisciplinary subject offered to undergraduate Engineering students. This book introduces the fundamental concepts in a simple and concise manner and highlights the role of chemistry in the field of engineering. It includes a large number of end-of-chapter exercises that test the student's understanding besides being useful from the examination point of view.

Elements of Environmental Engineering

Textbook On Experimental & Calculation In Engg. Chemistry

Textbook of Engineering Chemistry