

Text Book Of Engineering Chemistry Shashi Chawla

Answer

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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

a textbook of engineering chemistry

designed for the course on engineering chemistry offered to first year undergraduate students of engineering this book aims to strengthen fundamental concepts and highlight the applications of chemistry in the field of engineering written in a simple and lucid manner this book covers a broad spectrum of topics including water technology alternate energy resources science of corrosion and green chemistry it also includes a large number of end of chapter exercises which test student understanding and are also a valuable resource from the examination point of view

this is primarily intended as a textbook for btech students of all disciplines of engineering and technology it introduces the fundamental concepts in a simpler comprehensive and more illustrative way the book contains 12 chapters which provide a core course of engineering chemistry for all branches of engineering and technology each chapter starts with brief introduction history of the topic followed by meticulous discussion on each topic and practice zone containing solved numerical problems unsolved numerical problems and questions drawn from university examinations most of the topics have included the latest information explained with illustrations and nicely drawn diagrams the book has been written with the objective to serve the professional requirements of undergraduate students teachers of all branches of engineering and technology as per latest needs

the essence of engineering chemistry is to make the rare topics simple easy and lucid for all the readers to study and imbibe them in addition this book makes the readers rapidly understand the rare topics of engineering chemistry

the book encyclopaedia of engineering chemistry meant for engineering students the present book is an attempt to fulfil the need of all engineering students of u p t u and as well as for the engineering students of other state it covers the complete syllabus of chemistry prescribed by technical universities the treatment given is simple lucid and comprehensive contents

vol i

- 1 water and its treatment
- 2 stereochemistry of carbon compounds
- 3 corrosion and its preventions

vol ii

- 1 fuels
- 2 chemical bonding
- 3 environmental chemistry
- 4 structure of solids

vol iii

- 1 polymers
- 2 molecular structure and chemical bonding
- 3 chemical kinetics
- 4 phase

reactions 5 electrochemistry vol iv 1 organic reaction mechanism 2 analysis of organic compounds 3 conformational analysis 4 electronic theory of valency 5 mechanism of the walden inversion

this book is designed to meet the requirement of the students of b tech and b e students the book discusses in detail the following topics thermodynamics phase rule water and its treatment corrosion and its prevention lubrication and lubricants polymer and polymerization and analytical methods the book is suitably illustrated with diagrams and a number of solved numerical examples from different universities are included to make the text more exhaustive and understandable practical part is also appended at the end of the book

engineering chemistry presents the subject with the aim of providing clear and sufficient understanding of chemistry to the students of engineering as the same is imperative for any successful engineer 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 besides subjects matter of important topics of the engineering chemistry have been adequately discussed and amply covered it has been endeavour of author to present to the engineering graduate students as well as their relevant technical applications in a crisp and easy to understand way it is the fervent hope of author that this book would serve a useful purpose comments for further improvement of this book will be gratefully acknowledged

chemical engineering is the branch of engineering that deals with physical science and life sciences biology microbiology and biochemistry with mathematics economics to the process of converting raw materials or chemicals into more useful or valuable forms in addition modern chemical engineers are also concerned with pioneering valuable new materials and related techniques which are often essential to related fields such as nanotechnology fuel cells and biomedical engineering chemical engineers use chemistry and engineering to turn raw materials into usable products such as medicine petrochemicals and plastics they are also involved in waste management and research both applied and research facets make extensive use of computers a chemical engineer may be involved in industry or university research where he or she is tasked in designing and performing experiments to create new and better ways of production controlling pollution conserving resources and making these processes safer chemist may be involved in designing and constructing plants as a project engineer this book explains the chemical engineering with the help of 7 different units

engineering chemistry i concepts and applications is a textbook that offers an exclusive coverage of the topics and proper explanation of concepts as per the present day and future needs of the students the book provides the theoretical chapters 1 7 as well as practical chapter 8 aspects of the paper chemistry i bsc102 as per the latest aicte curriculum it will be useful to not only the first year engineering and technology students of all streams but also the professors for guiding their students

engineering chemistry presents the subject with the aim of providing clear and sufficient understanding of chemistry to the students of engineering as the same is imperative for any successful engineer 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 of chemistry as also its applied aspects written in easy self explanatory language and in depth at the same time clear diagrams and solved numerical problems included wherever required 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

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