

Techmax Publication Engineering Chemistry

CHEMICAL PROCESS CALCULATIONS
Standard Handbook of Machine Design
Modern Engineering Physics
Steel Designers' Handbook
ADVANCED MICROPROCESSORS & PERIPHERALS
Mechatronic Systems
The Chemistry, Properties and Tests of Precious Stones
Applied Chemistry: Chemistry for Engineers
Textbook Of Engineering Chemistry
Engineering Materials & Metallurgy
Mechanical Vibrations: Theory and Applications
Design and Analysis of Algorithms
Treatise on Thermodynamics
Engineering Hydrology
Ad Hoc Networks
Environmental Studies
The Finite Element Method in Engineering
Applied Chemistry
Elements of Chemical Reaction Engineering
The Handbook of Soap Manufacture
English in Mind Level 1B Combo with Audio CD/CD-ROM
Basic Electrical Engineering
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Let Us C Solutions - 17th Edition
Engineering Mathematics
Basics of Mechanical Engineering
Applied Discrete Structures
Encyclopedia of Materials
Introduction to Thermo-Fluids Systems Design
Control Systems Engineering
Design of Steel Structures
Wind Energy Engineering
Applied Chemistry
Textbook of Environmental Studies for Undergraduate Courses
Mechanisms and Mechanical Devices Sourcebook, Fourth Edition
Proceedings of Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2012)
Fluid Power Engineering
Emerging Trends in Civil Engineering

CHEMICAL PROCESS CALCULATIONS

A fully comprehensive guide to thermal systems design covering fluid dynamics, thermodynamics, heat transfer and thermodynamic power cycles. Bridging the gap between the fundamental concepts of fluid mechanics, heat transfer and thermodynamics, and the practical design of thermo-fluids components and systems, this textbook focuses on the design of internal fluid flow systems, coiled heat exchangers and performance analysis of power plant systems. The topics are arranged so that each builds upon the previous chapter to convey to the reader that topics are not stand-alone items during the design process, and that they all must come together to produce a successful design. Because the complete design or modification of modern equipment and systems requires knowledge of current industry practices, the authors highlight the use of manufacturer's catalogs to select equipment, and practical examples are included throughout to give readers an exhaustive illustration of the fundamental aspects of the design process. Key Features: Demonstrates how industrial equipment and systems are designed, covering the underlying theory and practical application of thermo-fluid system design. Practical rules-of-thumb are included in the text as 'Practical Notes' to underline their importance in current practice and provide additional information. Includes an instructor's manual hosted on the book's companion website.

Standard Handbook of Machine Design

Modern Engineering Physics

The latest ideas in machine analysis and design have led to a major revision of the field's leading handbook. New chapters cover ergonomics, safety, and computer-aided design, with revised information on numerical methods, belt devices, statistics, standards, and codes and regulations. Key features include: *new material on ergonomics, safety, and computer-aided design; *practical reference data that helps machines designers solve common problems--with a minimum of theory. *current CAS/CAM applications, other machine computational aids, and robotic applications in machine design. This definitive machine design handbook for product designers, project engineers, design engineers, and manufacturing engineers covers every aspect of machine construction and operations. Voluminous and heavily illustrated, it discusses standards, codes and regulations; wear; solid materials, seals; flywheels; power screws; threaded fasteners; springs; lubrication; gaskets; coupling; belt drive; gears; shafting; vibration and control; linkage; and corrosion.

Steel Designers' Handbook

&Quot;This book makes extensive use of worked numerical examples to demonstrate the methods of calculating the capacities of structural elements. These examples have been extensively revised from the previous edition, with further examples added. The worked examples are cross-referenced to the relevant clauses in AS 4100: 1998."--BOOK JACKET.

ADVANCED MICROPROCESSORS & PERIPHERALS

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 syllabii 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.

Mechatronic Systems

The Chemistry, Properties and Tests of Precious Stones

This updated edition of Gesser's classic textbook has undergone a full revision and now has the latest material, including new chapters on semiconductors and nanotechnology. It includes a supplementary laboratory section with stepwise

experimental protocols.

Applied Chemistry:

Chemistry for Engineers

Textbook Of Engineering Chemistry

A thorough survey of the manufacture of household and toilet Soaps in the early 1900's.

Engineering Materials & Metallurgy

Mechanical Vibrations: Theory and Applications

Mechatronics has emerged as its own discipline over the past decade, yet no reference has lived up to the demands of being a working guide for designing and implementing the new generation of mechatronic systems. Uniting an international team of leading experts, Mechatronic Systems: Devices, Design, Control, Operation and Monitoring rises to the ch

Design and Analysis of Algorithms

The Importance Of Environmental Studies Cannot Be Disputed Since The Need For Sustainable Development Is A Key To The Future Of Mankind. Recognising This, The Honourable Supreme Court Of India Directed The Ugc To Introduce A Basic Course On Environmental Education For Undergraduate Courses In All Disciplines, To Be Implemented By Every University In The Country. Accordingly, The Ugc Constituted An Expert Committee To Formulate A Six-Month Core Module Syllabus For Environmental Studies. This Textbook Is The Outcome Of The Ugc S Efforts And Has Been Prepared As Per The Syllabus. It Is Designed To Bring About An Awareness On A Variety Of Environmental Concerns. It Attempts To Create A Pro-Environmental Attitude And A Behavioural Pattern In Society That Is Based On Creating Sustainable Lifestyles And A New Ethic Towards Conservation. This Textbook Stresses On A Balanced View Of Issues That Affect Our Daily Lives. These Issues Are Related To The Conflict Between Existing `Development Strategies And The Need For `Conservation . It Not Only Makes The Student Better Informed On These Concerns, But Is Expected To Lead The Student Towards Positive Action To Improve

Where To Download Techmax Publication Engineering Chemistry

The Environment. Based On A Multidisciplinary Approach That Brings About An Appreciation Of The Natural World And Human Impact On Its Integrity, This Textbook Seeks Practical Answers To Make Human Civilization Sustainable On The Earth S Finite Resources. Attractively Priced At Rupees One Hundred And Fifteen Only, This Textbook Covers The Syllabus As Structured By The Ugc, Divided Into 8 Units And 50 Lectures. The First 7 Units, Which Cover 45 Lectures Are Classroom Teaching-Based, And Enhance Knowledge Skills And Attitude To Environment. Unit 8 Is Based On Field Activities To Be Covered In 5 Lecture Hours And Would Provide Students With First Hand Knowledge On Various Local Environmental Issues.

Treatise on Thermodynamics

This book comprises select papers from the International Conference on Emerging Trends in Civil Engineering (ICETCE 2018). Latest research findings in different branches of civil engineering such as structural engineering, construction materials, geotechnical engineering, water resources engineering, environmental engineering, and transportation infrastructure are covered in this book. The book also gives an overview of emerging topics like smart materials and structures, green building technologies, and intelligent transportation system. The contents of this book will be beneficial for students, academicians, industrialists and researchers working in the field of civil engineering.

Engineering Hydrology

The book is a collection of high quality peer reviewed research papers presented in Seventh International Conference on Bio-Inspired Computing (BIC-TA 2012) held at ABV-IIITM Gwalior, India. These research papers provide the latest developments in the broad area of "Computational Intelligence". The book discusses wide variety of industrial, engineering and scientific applications of nature/bio-inspired computing and presents invited papers from the inventors/originators of novel computational techniques.

Ad Hoc Networks

Presents brief profiles of over 54,500 newspapers, magazines, journals, and other periodicals, as well as radio, television, and cable stations and systems in the U.S., Canada, and the international market, each listing advertising rates, circulation statistics, key personnel, and other information.

Environmental Studies

"All aspects pertaining to algorithm design and algorithm analysis have been discussed over the chapters in this book--

Design and Analysis of Algorithms"--Resource description page.

The Finite Element Method in Engineering

Develop high-performance hydraulic and pneumatic power systems Design, operate, and maintain fluid and pneumatic power equipment using the expert information contained in this authoritative volume. Fluid Power Engineering presents a comprehensive approach to hydraulic systems engineering with a solid grounding in hydrodynamic theory. The book explains how to create accurate mathematical models, select and assemble components, and integrate powerful servo valves and actuators. You will also learn how to build low-loss transmission lines, analyze system performance, and optimize efficiency. Work with hydraulic fluids, pumps, gauges, and cylinders Design transmission lines using the lumped parameter model Minimize power losses due to friction, leakage, and line resistance Construct and operate accumulators, pressure switches, and filters Develop mathematical models of electrohydraulic servosystems Convert hydraulic power into mechanical energy using actuators Precisely control load displacement using HSAs and control valves Apply fluid systems techniques to pneumatic power systems

Applied Chemistry

This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple, lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way. The book comprises five chapters (excluding basic concepts) in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th Semester Mechanical, Production, Automobile Engineering and 2nd semester Mechanical disciplines of Anna University.

Elements of Chemical Reaction Engineering

Applied Chemistry-II is meant for the first year students of all branches engineering of Mumbai University. This book provides clear and sufficient understanding of the subject to the students. The contents are organized in such a way that the student can acquire the knowledge of applications of chemistry in engineering and technology. Each chapter has been covered in detail with principles of chemistry with its applied aspects and a variety of numerical problems wherever required. Additional questions and previous years university questions are included at the end of each chapter. A laboratory manual comprising nine experiments is appended at the end for proper understanding and there will be no need to refer other manuals.

The Handbook of Soap Manufacture

Intended for machinery, mechanism, and device designers; engineers, technicians; and inventors and students, this fourth edition includes a glossary of machine design and kinematics terms; material on robotics; and information on nanotechnology and mechanisms applications.

English in Mind Level 1B Combo with Audio CD/CD-ROM

Basic Electrical Engineering

This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals.

Emerging Trends in Mechanical Engineering

The Book Provides An Integrated Treatment Of Continuous-Time And Discrete-Time Systems For Two Courses At Undergraduate Level Or One Course At Postgraduate Level. The Stress Is On The Interdisciplinary Nature Of The Subject And Examples Have Been Drawn From Various Engineering Disciplines To Illustrate The Basic System Concepts. A Strong Emphasis Is Laid On Modeling Of Practical Systems Involving Hardware; Control Components Of A Wide Variety Are Comprehensively Covered. Time And Frequency Domain Techniques Of Analysis And Design Of Control Systems Have Been Exhaustively Treated And Their Interrelationship Established. Adequate Breadth And Depth Is Made Available For A Second Course. The Coverage Includes Digital Control Systems: Analysis, Stability And Classical Design; State Variables For Both Continuous-Time And Discrete-Time Systems; Observers And Pole-Placement Design; Liapunov Stability; Optimal Control; And Recent Advances In Control Systems: Adaptive Control, Fuzzy Logic Control, Neural Network Control. Salient Features * State Variables Concept Introduced Early In Chapter 2 * Examples And Problems Around Obsolete Technology Updated. New Examples Added * Robotics Modeling And Control Included * Pid Tuning Procedure Well Explained And Illustrated * Robust Control Introduced In A Simple And Easily Understood Style * State Variable Formulation And Design Simplified And Generalizations Built On Examples * Digital Control; Both Classical And Modern Approaches, Covered In Depth * A Chapter

Where To Download Techmax Publication Engineering Chemistry

On Adaptive, Fuzzy Logic And Neural Network Control, Amenable To Undergraduate Level Use, Included * An Appendix On Matlab With Examples From Time And Frequency Domain Analysis And Design, Included

Gale Directory of Publications and Broadcast Media

The English in Mind Combos offer flexibility in a contemporary English course for teenagers. Each Combo contains eight Student's Book units with the corresponding Workbook material grouped into two modules, and offers approximately 40 to 45 hours of classwork. Clear learning objectives at the beginning of each module, plus 'Check your Progress' sections at the end, help students and teachers plan learning more effectively. There are free Audio CDs/CD-ROMs combining an interactive CD-ROM and audio material. The English in Mind Combos can be used with mixed-ability classes. Combo Starter A is for complete beginners. Combos 1A and 1B are for elementary students; 1A contains a 16-page starter section to review key language. Combos Levels 2A, 2B, 3A and 3B take students from pre-intermediate to intermediate level.

Let Us C Solutions - 17th Edition

Mechanical Vibrations: Theory and Applications takes an applications-based approach at teaching students to apply previously learned engineering principles while laying a foundation for engineering design. This text provides a brief review of the principles of dynamics so that terminology and notation are consistent and applies these principles to derive mathematical models of dynamic mechanical systems. The methods of application of these principles are consistent with popular Dynamics texts. Numerous pedagogical features have been included in the text in order to aid the student with comprehension and retention. These include the development of three benchmark problems which are revisited in each chapter, creating a coherent chain linking all chapters in the book. Also included are learning outcomes, summaries of key concepts including important equations and formulae, fully solved examples with an emphasis on real world examples, as well as an extensive exercise set including objective-type questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Mathematics

Appreciate the learning path to C DESCRIPTION Best way to learn any programming language is to create good programs in it. C is not an exception to this rule. Once you decide to write any program you would find that there are always at least two ways to write it. So you need to find out whether you have chosen the best way to implement your program, That's where you would find this book useful. It contains solutions to all the exercises present in Let Us C 17th Edition. If you learn the language elements form Let Us C, write programs for the problems given in the exercises and then cross check your

answers with the solutions given in this book you would be well on your way to become a skilled C programmer. KEY FEATURES - Strengthens the foundations, as a detailed explanation of programming language concepts are given - Lists down all the important points that you need to know related to various topics in an organized manner - Provides In-depth explanation of complex topics - Focuses on how to think logically to solve a problem WHAT WILL YOU LEARN - C Instructions - Decision Control Instruction , Loop Control Instruction , Case Control Instruction - Functions, Pointers, Recursion - Data Types, The C Preprocessor - Arrays, Strings - Structures, Console Input/Output, File Input/Output WHO THIS BOOK IS FOR Students, Programmers, researchers, and software developers who wish to learn the basics of C programming language. Table of Content 1. Introduction 2. Before We Begin 3. Getting Started 4. C Instructions 5. Decision Control Instruction 6. More Complex Decision Making 7. Loop Control Instruction 8. More Complex Repetitions 9. Case Control Instruction 10. Functions 11. Pointers 12. Recursion 13. Data Types Revisited 14. The C Preprocessor 15. Arrays 16. Multidimensional Arrays 17. Strings 18. Handling Multiple Strings 19. Structures 20. Console Input/Output 21. File Input/Output 22. More Issues In Input/Output 23. Operations On Bits 24. Miscellaneous Features 25. Periodic Tests - I, II, III, IV

Basics of Mechanical Engineering

Applied Discrete Structures

Keeping the importance of basic tools of process calculations—material balance and energy balance—in mind, the text prepares the students to formulate material and energy balance theory on chemical process systems. It also demonstrates how to solve the main process-related problems that crop up in chemical engineering practice. The chapters are organized in a way that enables the students to acquire an in-depth understanding of the subject. The emphasis is given to the units and conversions, basic concepts of calculations, material balance with/without chemical reactions, and combustion of fuels and energy balances. Apart from numerous illustrations, the book contains numerous solved problems and exercises which bridge the gap between theoretical learning and practical implementation. All the numerical problems are solved with block diagrams to reinforce the understanding of the concepts. Primarily intended as a text for the undergraduate students of chemical engineering, it will also be useful for other allied branches of chemical engineering such as polymer science and engineering and petroleum engineering. KEY FEATURES • Methods of calculation for stoichiometric proportions with practical examples from the Industry • Simplified method of solving numerical problems under material balance with and without chemical reactions • Conversions of chemical engineering equations from one unit to another • Solution of fuel and combustion, and energy balance problems using tabular column

Encyclopedia of Materials

Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book is an invaluable reference into this cross-disciplinary field for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to the developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers new case studies from a world expert in the field Covers the latest research developments in this fast moving, vital subject

Introduction to Thermo-Fluids Systems Design

Electrical Engineering Essence of electricity, Conductors, Semiconductors and insulators (elementary treatment only); Electric field, electric current, Potential and potential difference, Electromotive force, Electric power, Ohm's law, Basic circuit components, Electromagnetism related laws, Magnetic field due to electric current flow, Force on a current carrying conductor placed in a magnetic field, Faradays laws of electromagnetic induction. Types of induced EMF's, Kirchhoff's laws, Simple problems. Network Analysis Basic definitions, Types of elements, types of sources, Resistive networks, Inductive networks, Capacitive networks, Series parallel circuits, Star delta and delta star transformation, Network theorems- Superposition, Thevenin's, Maximum power transfer theorems and simple problems. Magnetic Circuits Basic definitions, Analogy between electric and magnetic circuits, Magnetization characteristics of Ferro magnetic materials, Self inductance and mutual inductance, Energy in linear magnetic systems, Coils connected in series, Attracting force or electromagnets. Alternating Quantities Principle of ac voltages, Waveforms and basic definitions, Relationship between frequency, Speed and number of poles, Root mean square and average values of alternating currents and voltage, form factor and peak factor, Phasor representation of alternating quantities, The J operator and phasor algebra, analysis of ac circuits with single basic network element, single phase series circuits, Single phase parallel circuits, Single phase series parallel circuits, Power in ac circuits. Transformers Principles of operation, Constructional details, Ideal Transformer and Practical Transformer, Losses, Transformer Test, Efficiency and Regulation Calculations. Direct current machines Principle of operation of dc machines, Armature windings, E.M.F. equation in a dc machine, Torque production in a dc machine, Operation of a dc machine as a generator, Operation of a dc machine as a motor. A.C. Machines Three phase induction motor, principle of operation, Slip and rotor frequency, Torque (simple problems). Synchronous Machines Principle of

operation, EMF equation (Simple problems on EMF). Synchronous motor principle and operation (Elementary treatment only) Basic Instrument Classification of instruments, Operating principles, Essential features of measuring instruments, Moving coil permanent magnet (PMMC) instruments, Moving Iron of Ammeters and Voltmeters (elementary treatment only).

Control Systems Engineering

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.

Design of Steel Structures

The book presents in a clear and concise manner the fundamentals of chemical reaction engineering. The structure of the book allows the student to solve reaction engineering problems through reasoning rather than through memorization and recall of numerous equations, restrictions, and conditions under which each equation applies. The fourth edition contains more industrial chemistry with real reactors and real engineering and extends the wide range of applications to which chemical reaction engineering principles can be applied (i.e., cobra bites, medications, ecological engineering)

Wind Energy Engineering

The third edition of this popular text continues integrating basic concepts, theory, design and real-life applications related to the subject technology, to enable holistic understanding of the concepts. The chapters are introduced in tune with the conceptual flow of the subject; with in-depth discussion of concepts using excellent interfacing and programming examples in assembly language Features: • Updated with crucial topics like ARM Architecture, Serial Communication Standard USB • New and updated chapters explaining 8051 Microcontrollers, Instruction set and Peripheral Interfacing along with Project(s) Design • Latest real-life applications like Hard drives, CDs, DVDs, Blue Ray Drives

Applied Chemistry

A mobile ad hoc network (MANET) is a collection of two or more wireless devices with the capability to communicate with each other without the aid of any centralized administrator. Ad hoc networks have no fixed routers, these nodes can be connected dynamically in an arbitrary manner. MANETs, due to their operational characteristics, the dynamics of their

changes and the precariousness of their resources, offer huge challenges due to the architecture and service nature in the next generation of mobile communications. MANETs play an important role in the future of next-generation networks. This special collection identifies and studies the most important concerns in MANETs, and includes contributions from researchers, academics, etc.

Textbook of Environmental Studies for Undergraduate Courses

Mechanisms and Mechanical Devices Sourcebook, Fourth Edition

Proceedings of Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2012)

Fluid Power Engineering

The book covers the topics in depth, yet at the same time in a concise and student friendly way. The content has been arranged in a very organized and graded manner- (e.g. Chapter 6 on Tension Members) The flow is very well structured and topics have been.

Emerging Trends in Civil Engineering

This second edition of The Finite Element Method in Engineering reflects the new and current developments in this area, whilst maintaining the format of the first edition. It provides an introduction and exploration into the various aspects of the finite element method (FEM) as applied to the solution of problems in engineering. The first chapter provides a general overview of FEM, giving the historical background, a description of FEM and a comparison of FEM with other problem solving methods. The following chapters provide details on the procedure for deriving and solving FEM equations and the application of FEM to various areas of engineering, including solid and structural mechanics, heat transfer and fluid mechanics. By commencing each chapter with an introduction and finishing with a set of problems, the author provides an invaluable aid to explaining and understanding FEM, for both the student and the practising engineer.

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