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# Engineering Chemistry Vairam

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Basic Electronics and Linear Circuits  
Enzymes  
Photovoltaic Solar Energy  
A Textbook for Engineers and Technologists  
Engineering Chemistry  
Technical Communication  
Engineering Physics  
ENGINEERING CHEMISTRY  
S Chand Higher Engineering Mathematics  
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ENGINEERING CHEMISTRY (WBUT)  
A Textbook for Engineers and Technologists  
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Synthesis, Properties and Applications  
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Engineering Chemistry Precise

Modeling and Simulation Using Matlab - Simulink  
Advanced Engineering Mathematics, 22e  
Engineering Chemistry  
New Tools for Law Practice in the Digital Age  
B-C-N Nanotubes and Related Nanostructures  
Physical Chemistry for Beginners  
Professional Ethics and Human Values  
A Textbook of Applied Electronics  
Engineering Chemistry  
A Textbook  
Biochemistry, Biotechnology, Clinical Chemistry  
Chemistry for Engineers  
Engineering Chemistry

*Engineering Chemistry Vairam*

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## **DEANDRE BARRON**

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**Basic Electronics and Linear Circuits** John Wiley & Sons  
Contamination of aqueous environments by hazardous chemical compounds is the direct cause of the decline of safe clean water supply throughout the globe. The use of unconventional water sources such as treated wastewater will be a new norm. Emerging nanotechnological innovations have great potential for wastewater remediation processes. Applications that use smart nanomaterials of inorganic and organic origin improve treatment efficiency and lower energy requirements. This book describes the synthesis, fabrication, and application of advanced nanomaterials in water treatment processes; their adsorption,

transformation into low toxic forms, or degradation phenomena, and the adsorption and separation of hazardous dyes, organic pollutants, heavy metals and metalloids from aqueous solutions. It explains the use of different categories of nanomaterials for various pollutants and enhances understanding of nanotechnology-based water remediation to make it less toxic and reusable.

**Enzymes** John Wiley & Sons

Engineering Chemistry includes comprehensive, lucid and accurate presentations of the subject matter, which is easy to understand and stimulates the interest of students. It provides the in-depth information required to understand the principles and practice of applied chemistry, and presents coherent and adequate coverage of various topics. The fundamentals have been explained with the help of illustrations, diagrams and tables

to facilitate better understanding. A balance between theoretical and applied aspects have been maintained in this book. The solved examples in the chapter and exercises at the end of each chapter help in strengthening the theoretical concepts.

**Photovoltaic Solar Energy** Loompanics Unltd

Inorganic Anticorrosive Materials (IAMs): Past, Present, and Future Perspectives covers the anticorrosive effects of inorganic materials and metal oxides in particular. The book presents the latest developments in corrosion inhibition and discusses future opportunities. It also addresses the fundamental characteristics, synthesis, inhibition mechanisms, and applications of metal oxides as corrosion inhibitors in industry and provides a chronological overview of the growth of the field. The book concludes with discussions about commercialization and economics. This book is an indispensable reference for scholars, chemical engineers, chemists, and materials scientists working in research and development and in academia who require comprehensive knowledge of corrosion-inhibition mechanisms. Utilizes metal oxides as corrosion inhibitors for usage in modern industrial platforms Evaluates corrosion inhibitors as prime options for sustainable and transformational opportunities Provides up-to-date reference materials, including websites of interest and information about ongoing research

**A Textbook for Engineers and Technologists** CRC Press

Gain a better understanding of the connections among earth's finite resources and the environmental, social, ethical, technical and economical impacts of your daily decisions with Moaveni's ENERGY, ENVIRONMENT, AND SUSTAINABILITY, 2nd Edition. As

climate change has an increasing influence on today's world, you learn how to evaluate energy and environmental footprints to make environmentally sound decisions and help preserve natural resources. Become more aware of your own energy consumption as you study how much energy is required to manufacture, transport, use and dispose of common products. A new chapter highlights evidence-based analysis and how this systematic approach to sustainability can lead to more reliable decisions. Relevant, everyday examples bring concepts to life, while hands-on problems give you experience in analyzing information, preparing reports and presentations and working within teams. You learn how to make the world a better place, beginning with your own personal changes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Engineering Chemistry* MJP Publisher

"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.

**Technical Communication** Springer Science & Business Media

Traditionally, interest in the chemistry of hydrazine and its derivatives has been focused on the development of propellants and explosives, but in recent years a wide variety of new applications have emerged in fields such as polymers,

pharmaceuticals, water treatment, agriculture and medicine. *Inorganic Hydrazine Derivatives: Synthesis, Properties and Applications* presents a comprehensive review of the research carried out in this field during the last four decades. Methods for synthesizing inorganic hydrazine derivatives and complexes are systematically presented, together with details of their characterization, spectra, thermal analysis, crystal structure, and applications. Strong emphasis is given to controlling the reactivity of hydrazine derivatives from detonation to deflagration to decomposition. The monograph also highlights current developments and applications of inorganic hydrazine derivatives, including the synthesis of nanostructured materials. Topics covered include: An introduction to hydrazine and its inorganic derivatives Hydrazine salts Metal hydrazines Metal hydrazine carboxylates Hydrazinium metal complexes Applications of inorganic hydrazine derivatives This applications-based handbook is a valuable resource for academics and industry professionals researching and developing hydrazine compounds, high energy materials, nanomaterials, and pharmaceuticals.

Engineering Physics I. K. International Pvt Ltd

Carbon nanotubes (CNTs) and Boron nitride nanotubes (BNNTs) are part of the so-called B-C-N material system, which includes novel nanostructures of carbon (C), doped-carbon, boron (B), boron nitride (BN), carbon nitride (CN<sub>x</sub>), boron-carbon nitride (B<sub>x</sub>C<sub>y</sub>N<sub>z</sub>), and boron carbide (B<sub>x</sub>C<sub>y</sub>). BNNTs and CNTs are structurally similar and share extraordinary mechanical properties, but they differ in chemical, biological, optical, and electrical properties. Therefore, hybrid nanotubes constructed of

B, C, N elements are expected to form a new class of nanotubes with tunable properties between those of CNTs and BNNTs. In addition, these B-C-N nanostructures will further enhance and complement the applications of CNTs and BNNTs. With contributions from leading experts, *B-C-N Nanotubes and Related Nanostructures* is the first book to cover all theoretical and experimental aspects of this emerging material system, and meets the need for a comprehensive summary of the tremendous advances in research on B-C-N materials in recent years.

ENGINEERING CHEMISTRY Springer Science & Business Media

The text material has been restructured to provide a more balanced and exhaustive coverage of the subject. The text discusses the core concepts of technical communication and explains them with the help of numerous examples and practice exercises. The book also provides support for soft skills laboratory sessions through a companion CD. With its in-depth coverage and practical orientation, the book is useful not only for students, but also as a reference material for corporate training programmes.

S Chand Higher Engineering Mathematics PHI Learning Pvt. Ltd.

*Engineering Physics* is designed as a textbook for first year undergraduate engineering students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures.

*Psychedelic Chemistry* John Wiley & Sons

*Engineering Mechanics* is a textbook specifically designed for a one-semester interdisciplinary course offered at the university

level for undergraduate engineering programmes in India.

Fundamentals and Applications Laxmi Publications

For Engineering students & also useful for competitive Examination.

*From Fundamentals to Applications* Elsevier

Introduction to Process Engineering and Design covers basic principles to design alternate systems, develop process diagrams and select the best alternative to be adopted. Multiple industrial examples provided in the book will enhance the skills of the readers for innovative designs. Salient Features: • Focuses on process design of chemical plants and equipment • State-of-the-art technique of supercritical extraction, reactive distillation, short path distillation discussed • Process Flow-charts are provided throughout the book

*ENGINEERING CHEMISTRY (WBUT)* Tata McGraw-Hill Education

The most complete book ever written on how to manufacture psychedelic drugs! Intended only for those who have a thorough knowledge of advanced lab techniques in organic chemistry.

Extracting THC from marijuana. Making LSD. Synthesizing cocaine. Mescaline, harmaline, muscimole and more. Out of print for years, now available in a revised, updated edition with more material.

A Textbook for Engineers and Technologists Cambridge University Press

This book highlights the importance of chemistry in human well-being by introducing the readers to the basic usefulness of chemistry in everyday life. Chemistry has helped in creating valuable products that have transformed the lifestyle of people. Since we spend lots of money in buying our daily requirements,

there is a need for us to understand the benefits and hazards of using consumer products which contain chemicals. In this context, this book will help readers to make reasoned choices and intelligent decisions in buying consumer products which contain chemicals. This text is divided into seventeen chapters devoted to the basic necessities of life like food, shelter, clothing, healthcare, and energy and consumer products. Topics on chemistry in environment, crime, warfare, arts, conservation, communications and transportation are also highlighted in individual chapters. All these topics are discussed with regard to the needs of modern society. In this third edition, the various chapters have been updated with current information keeping the language simple and friendly. Critical thinking exercises and questions have been included. The style of questions included in the book is to meet the requirement of various competitive examinations such as Indian Civil Services and entrance examinations in medicine and engineering.

**Borgnakke's Fundamentals of Thermodynamics** Tata McGraw-Hill Education

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. \* 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. *Engineering Chemistry* Elsevier

This new edition of Borgnakke's Fundamentals of Thermodynamics continues to offer a comprehensive and rigorous treatment of classical thermodynamics, while retaining an engineering perspective. With concise, applications-oriented discussion of topics and self-test problems, this text encourages students to monitor their own learning. This classic text provides a solid foundation for subsequent studies in fields such as fluid mechanics, heat transfer and statistical thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering.

Inorganic Hydrazine Derivatives PHI Learning Pvt. Ltd.

In recent years, there have been considerable developments in techniques for the investigation and utilisation of enzymes. With the assistance of a co-author, this popular student textbook has been updated to include techniques such as membrane chromatography, aqueous phase partitioning, engineering recombinant proteins for purification and due to the rapid advances in bioinformatics/proteomics, a discussion of the analysis of complex protein mixtures by 2D-electrophoresis and RPHPLC prior to sequencing by mass spectroscopy. Written with the student firmly in mind, no previous knowledge of biochemistry, and little of chemistry, is assumed. It is intended to provide an introduction to enzymology, and a balanced account of all the various theoretical and applied aspects of the subject which are likely to be included in a course. Provides an introduction to enzymology and a balanced account of the theoretical and applied aspects of the subject Discusses techniques such as membrane chromatography, aqueous phase partitioning and engineering recombinant proteins for purification

Includes a discussion of the analysis of complex protein mixtures by 2D-electrophoresis and RPHPLC prior to sequencing by mass spectroscopy

*Applied Chemistry* Firewall Media

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.

*Chemistry in Engineering and Technology* S. Chand Publishing

Fundamentals of DC and AC Circuits Fundamentals of DC Circuits :

Ohm's law, Kirchhoff's law, Simple resistive circuits - Effect of series and parallel resistances - Mesh and Nodal analysis - Simple problems. Fundamentals of AC Circuits : RMS and average values of sine wave, Form factor, Peak factor. Single phase AC circuits - Impedance, Power and power factor - RL, RC, RLC circuits - Simple AC circuits - Problems. Fundamentals of Magnetic Circuits Ohm's law of magnetic circuit, Simple and composite magnetic circuits, Effect of air gap - Leakage factor - fringing effect - Simple problems. Faraday's law of electromagnetic induction - Self and Mutually induced EMF - Statically and Dynamically induced EMF - Simple problems. DC Machines and Transformers DC Machine : Construction - EMF equation of DC generator - Types of generators and motors - Characteristics. Transformer : Construction - EMF equation - Transformation ratio - Types of transformers - Instrumentation transformer. Induction Machines Three Phase Induction Motor : Construction, Types - Principle of operation - Torque equation - Slip Vs Torque characteristics of cage and wound rotor. Single

Phase Induction Motor : Principle of operation-Types - Applications. Power Supplies Half wave and full wave rectifiers - Bridge rectifier - Types of filters - Voltage regular - Introduction to SMPS and UPS.

*Artificial Intelligence and Legal Analytics* Springer Science & Business Media

This is the first text to cover all aspects of solution processed functional oxide thin-films. Chemical Solution Deposition (CSD) comprises all solution based thin-film deposition techniques, which involve chemical reactions of precursors during the formation of the oxide films, i. e. sol-gel type routes, metallo-organic decomposition routes, hybrid routes, etc. While the development of sol-gel type processes for optical coatings on

glass by silicon dioxide and titanium dioxide dates from the mid-20th century, the first CSD derived electronic oxide thin films, such as lead zirconate titanate, were prepared in the 1980's. Since then CSD has emerged as a highly flexible and cost-effective technique for the fabrication of a very wide variety of functional oxide thin films. Application areas include, for example, integrated dielectric capacitors, ferroelectric random access memories, pyroelectric infrared detectors, piezoelectric micro-electromechanical systems, antireflective coatings, optical filters, conducting-, transparent conducting-, and superconducting layers, luminescent coatings, gas sensors, thin film solid-oxide fuel cells, and photoelectrocatalytic solar cells. In the appendix detailed "cooking recipes" for selected material systems are offered.

Best Sellers - Books :

- [How To Catch A Mermaid By Adam Wallace](#)
- [A Court Of Thorns And Roses \(a Court Of Thorns And Roses, 1\)](#)
- [The Democrat Party Hates America](#)
- [Mad Honey: A Novel](#)
- [The Four Agreements: A Practical Guide To Personal Freedom \(a Toltec Wisdom Book\)](#)
- [Reminders Of Him: A Novel By Colleen Hoover](#)
- [How To Win Friends & Influence People \(dale Carnegie Books\)](#)
- [Little Blue Truck's Springtime: An Easter And Springtime Book For Kids](#)
- [The Psychology Of Money: Timeless Lessons On Wealth, Greed, And Happiness By Morgan Housel](#)
- [The Seven Husbands Of Evelyn Hugo: A Novel](#)