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The Second Edition also benefits from new artwork that clearly illustrates complex concepts. New to the Second Edition: New Chapter: 15, "Geophysical Imaging," by Frederick Cook Within Chapters 21 and 22, four new essays on "Regional Perspectives" discuss the European Alps, the Altaids, the Appalachians, and the Cascadia Wedge. New and updated art for more informative illustration of concepts. The Second Edition now has 570 black & white figures.

The Origin of Continents and Oceans Cambridge University Press
An advanced-level textbook of inorganic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of four volume series, entitled "A Textbook of Inorganic Chemistry – Volume I, II, III, IV". CONTENTS: Chapter 1. Stereochemistry and Bonding in Main Group Compounds: VSEPR theory, d? -p? bonds, Bent rule and energetic of hybridization. Chapter 2. Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interactions, Trends in stepwise constants, Factors affecting stability of metal complexes with reference to the nature of metal ion and ligand, Chelate effect and its thermodynamic origin, Determination of binary formation constants by pH-metry and spectrophotometry. Chapter 3. Reaction Mechanism of Transition Metal Complexes – I: Inert and labile complexes, Mechanisms for ligand replacement reactions, Formation of complexes from aquo ions, Ligand displacement reactions in octahedral complexes- acid hydrolysis, Base hydrolysis, Racemization of tris chelate complexes, Electrophilic attack on ligands. Chapter 4. Reaction Mechanism of Transition Metal Complexes – II: Mechanism of ligand displacement reactions in square planar complexes, The trans effect, Theories of trans effect, Mechanism of electron transfer reactions – types; Outer sphere electron transfer mechanism and inner sphere electron transfer mechanism, Electron exchange. Chapter 5. Isopoly and Heteropoly Acids and Salts: Isopoly and Heteropoly acids and salts of Mo and W: structures of isopoly and heteropoly anions. Chapter 6. Crystal Structures: Structures of some binary and ternary compounds such as fluorite, antifluorite, rutile, antirutile, crystobalite, layer lattices- CdI2, BiI3; ReO3, Mn2O3, corundum, pervoskite, Ilmenite and Calcite. Chapter 7. Metal-Ligand Bonding: Limitation of crystal field theory, Molecular orbital theory, octahedral, tetrahedral or square planar complexes, ?-bonding and molecular orbital theory. Chapter 8. Electronic Spectra of Transition Metal Complexes: Spectroscopic ground states, Correlation and spin-orbit coupling in free ions for Ist series of transition metals, Orgel and Tanabe-Sugano diagrams for transition metal complexes (d1 – d9 states), Calculation of Dq, B and ? parameters, Effect of distortion on the d-orbital energy levels, Structural evidence from electronic spectrum, John-Tellar effect, Spectrochemical and nephalauxetic series, Charge transfer spectra, Electronic spectra of molecular addition compounds. Chapter 9. Magantic Properties of Transition Metal Complexes: Elementary theory of magneto - chemistry, Guoy's method for determination of magnetic susceptibility, Calculation of magnetic moments, Magnetic properties of free ions, Orbital contribution, effect of ligand-field, Application of magneto-chemistry in structure determination, Magnetic exchange coupling and spin state cross over. Chapter 10. Metal Clusters: Structure and bonding in higher boranes, Wade's rules, Carboranes, Metal Carbonyl Clusters - Low Nuclearity Carbonyl Clusters, Total Electron Count (TEC). Chapter 11. Metal-? Complexes: Metal carbonyls, structure and bonding, Vibrational spectra of metal carbonyls for bonding and structure elucidation, Important reactions of metal carbonyls; Preparation, bonding, structure and important reactions of transition metal nitrosyl, dinitrogen and dioxygen complexes; Tertiary phosphine as ligand.

Life on an Ocean Planet S. Chand Publishing
Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

A Textbook of Agronomy Packt Publishing Ltd
This Book Offers An In Depth Study Of Computer Concepts And Step By Step Procedure In Explaining The Ms Office Package. A Separate Section Is Devoted To E Mails And Introduction To Web Design. The Cd Contains Visual Explanation Of The Working Of The Ms Of

The Internet Book New Age International
Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conversion and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.

Essentials of Paleomagnetism BoD – Books on Demand
Cowan's Microbiology Fundamentals: A Clinical Approach, Third Edition, is a perfect fit for the course. The author team includes a practicing Registered Nurse who shows students how the content on each page relates to their lives and future career. Connect is aligned with the text and provides a highly reliable, easy-to-use homework and learning management solution that embeds learning science and award-winning adaptive tools to improve student results. This updated version incorporates information about the Microbiome throughout the textbook, including a separate boxed feature at the end of each chapter that walks students through how to critically analyze the onslaught of new research findings. To increase student success and critical thinking, "SmartGrid," a new end-of-chapter feature, organizes questions that assess the major curriculum guidelines outlined by the American Society for Microbiology and represent the increasing levels of Bloom's Taxonomy of learning.

Course In English Grammar,A University of Chicago Press
For a one-semester senior or beginning graduate level course in power system dynamics. This text begins with the fundamental laws for basic devices and systems in a mathematical modeling context. It includes systematic derivations of standard synchronous machine models with their fundamental controls. These individual models are interconnected for system analysis and simulation. Singular perturbation is used to derive and explain reduced-order models.

Macmillan Foundation English John Wiley & Sons
The main aim of this book is to make advanced students of English understand grammatical categories and their inter-relationships. Each section in a chapter is based on the discussion of a grammatical category along with illustrative sentences. This book can be used as a coursebook for BA (Hons) English, B.Ed (English Methods), MA English, M. Phil English, and the Post Graduate Diploma in the teaching of English.

Digital Learning: The Key Concepts Springer
Geochemistry includes new contributions to the field of granite rocks geochemistry, mineralogy, petrology and microstructure studies, geochemistry of radioactive isotopes, and geochronology. It contains detailed geochemical, mineralogical, petrological, sedimentological and geostructural studies from Europa, Asia, Africa, South America and Australia Chapters present geochemical exploration methods, isotopic studies, and macro- and microstructural analyses.

Number Theory and Discrete Mathematics John Wiley & Sons
This fully revised and updated edition introduces the reader to sedimentology and stratigraphic principles, and provides tools for the interpretation of sediments and sedimentary rocks. The processes of formation, transport and deposition of sediment are considered and then applied to develop conceptual models for the full range of sedimentary environments, from deserts to deep seas and reefs to rivers. Different approaches to using stratigraphic principles to date and correlate strata are also considered, in order to provide a comprehensive introduction to all aspects of sedimentology and stratigraphy. The text and figures are designed to be accessible to anyone completely new to the subject, and all of the illustrative material is provided in an accompanying CD-ROM. High-resolution versions of these images can also be downloaded from the companion website for this book at: www.wiley.com/go/nicholssedimentology.

The Calculus of Finite Differences CRC Press
Unit-I : Thermodynamics -I (A) Recapitulation of thermodynamic terms : System, surrounding types of system (closed, open & isolated), Thermodynamic, variables, intensive & extensive properties, thermodynamic processes (isothermal, adiabatic, isobaric, cyclic, reversible & irreversible) State function & path functions, properties of state functions (exact differential, cyclic rule), integrating factor, concept of heat & work. [3L] (B) Statements of first law of thermodynamics : Definition of internal energy & enthalpy, heat capacity at constant volume & at constant pressure, Joule-Thomson experiment, Joule Thomson coefficient & Inversion temperature, calculations of W,Q, ΔE & ΔH for expansion of gases for isothermal & adiabatic conditions for reversible process, carnot's cycle & its efficiency, thermodynamic scale of temperature. [5L] (C) Thermochemistry : Heat of reaction, standard states, relation between heat of reaction at constant volume & at constant pressure, Hess's law of constant heat of summation & its applications, bond dissociation energy & its calculations from thermochemical data, variation of heat of reaction with temperature (Kirchoff's equation). [4L] Unit-II : Thermodynamics-II (A) Second law of thermodynamics : Need for second law of thermodynamics, statements of second law of thermodynamics, concept of entropy, entropy as a state function of V & T, P&T, entropy change in phase change for ideal gas, entropy as criteria of spontaneity & equilibrium. [4L] (B) Free energy functions : Helmholtz free energy (A) & Gibb's free energy (G) & their properties, standard free energies, effect of temperature on free energy (Gibb's-Helmholtz equation) & its applications, A&G as criteria for thermodynamic equilibrium. [4L] (C) System of variable composition : Partial molar quantities, chemical potential, Van't-Hoff's reaction isotherm, relation between standard free energy change & equilibrium constant (thermodynamic derivation of law of mass action), effect of temperature on equilibrium constant (reaction isochore) [4L] Unit-III : Phase Equilibria (A) Phase rule : Statement of phase rule, definition of phase, component and degree of freedom, derivation of phase rule, Clapeyron equation & its application in deciding slopes of line for two phase equilibria, applications of phase rule to two phase equilibria of i) water system, ii) sulphur system & iii) Pb-Ag system. [6L] (B) Liquid-Liquid mixtures : Ideal liquid mixtures, Raoults law of ideal solutions, Henry's law, non-ideal systems, azeotropes: HCl -H2O & ethanol-water system. Partial miscible liquids : Phenol-water system, trimethylamine-water, nicotine-water system, lower & upper consolute temperature, effect of impurity. Immiscible liquids : Steam distillation, Nernst distribution law, Limitations, deviations & applications. [6L] Unit-IV : Solid State Laws of crystallography : (i) Law of constancy of interfacial angles, (ii) Law of rationality of indices, (iii) Law of symmetry, symmetry of elements in crystals. Unit cell, space lattice, orientation of lattice plane (Miller indices). Bravais lattices, crystal systems, X-ray diffraction by crystal, derivation of Braggs' equation.

Geochemistry Cambridge University Press
The Internet Book, Fifth Edition explains how computers communicate, what the Internet is, how the Internet works, and what services the Internet offers. It is designed for readers who do not have a strong technical background — early chapters clearly explain the terminology and concepts needed to understand all the services. It helps the reader to understand the technology behind the Internet, appreciate how the Internet can be used, and discover why people find it so exciting. In addition, it explains the origins of the Internet and shows the reader how rapidly it has grown. It also provides information on how to avoid scams and exaggerated marketing claims. The first section of the book introduces communication system concepts and terminology. The second section reviews the history

of the Internet and its incredible growth. It documents the rate at which the digital revolution occurred, and provides background that will help readers appreciate the significance of the underlying design. The third section describes basic Internet technology and capabilities. It examines how Internet hardware is organized and how software provides communication. This section provides the foundation for later chapters, and will help readers ask good questions and make better decisions when salespeople offer Internet products and services. The final section describes application services currently available on the Internet. For each service, the book explains both what the service offers and how the service works. About the Author Dr. Douglas Comer is a Distinguished Professor at Purdue University in the departments of Computer Science and Electrical and Computer Engineering. He has created and enjoys teaching undergraduate and graduate courses on computer networks and Internets, operating systems, computer architecture, and computer software. One of the researchers who contributed to the Internet as it was being formed in the late 1970s and 1980s, he has served as a member of the Internet Architecture Board, the group responsible for guiding the Internet ' s development. Prof. Comer is an internationally recognized expert on computer networking, the TCP/IP protocols, and the Internet, who presents lectures to a wide range of audiences. In addition to research articles, he has written a series of textbooks that describe the technical details of the Internet. Prof. Comer ' s books have been translated into many languages, and are used in industry as well as computer science, engineering, and business departments around the world. Prof. Comer joined the Internet project in the late 1970s, and has had a high-speed Internet connection to his home since 1981. He wrote this book as a response to everyone who has asked him for an explanation of the Internet that is both technically correct and easily understood by anyone. An Internet enthusiast, Comer displays INTRNET on the license plate of his car.

English Grammar & Composition Ram Prasad Publications(R.P.H.)

FOR B.Sc & B.Sc.(Hons) CLASSES OF ALL INDIAN UNIVERSITIES AND ALSO AS PER UGC MODEL CURRICULUMN Contents: CONTENTS:Protochordates:Hemicholrdata 1.Urochordata Cephalochordata Vertebrates : Cyclostomata 3. Agnatha, Pisces Amphibia 4. Reptilia 5. Aves Mammalia 7 Comparative Anatomy:lntegumentary System 8 Skeletal System Coelom and Digestive System 10 Respiratory System 11. Circulatory System Nervous System 13. Receptor Organs 14 Endocrine System 15 Urinogenital System 16 Embryology Some Comparative Charts of Protochordates 17 Some Comparative Charts of Vertebrate Animal Types 18 Index.

Biogeography: an Ecological and Evolutionary Approach Springer Nature

The book in its tenth edition has been thoroughly restructured and revised. All the chapters of the present edition have been re-written not only to incorporate the latest developments in management but also to make presentation of subject-matter more lucid and crisp. Chapter 3 of the previous edition (Managers and Environment) has been named as Management Challenges and Opportunities in the present edition so that proper focus is put on these issues. Thus, the present edition is ideally suited to management students as well as management practitioners, particularly those who have not gone through formal management education.

Modern Pharmaceutics McGraw-Hill Education

This edited book is based on the papers accepted for presentation during the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-2), Tunisia, in 2019. Major subjects treated in the book include geomorphology, sedimentology, and geochemistry. The book presents an updated unique view in conjugating field studies and modeling to better quantify the process-product binomial unusual in geosciences. In the geomorphology section, 24 papers deal with topics related to fault slip and incision rates, soil science, landslides and debris flows, coastal processes, and geoarcheology, and geoheritage. Under the sedimentology section, 34 papers including stratigraphy, and environmental, tectonic, and diagenetic processes, together with evolutionary, biostratigraphic, and paleo-environmental significance of paleontology are presented. Additionally, this section also contains papers on marine geosciences, from molecular proxies related to climate to geophysical surveys. Last but not least, the third section on geochemistry is composed of 26 papers that are focused on sedimentary geochemistry and mineralogical characterization, magmatic and metamorphic processes and products, and the origin and exploration of mineral deposits. This book resumes the current situation related to the abovementioned topics mainly in the Mediterranean realm. The volume book is of interest to all researchers, practitioners, and students in the fields of geomorphology, sedimentology, and geochemistry, as well as those engaged in environmental geosciences, soil science, stratigraphy and paleontology, geoarcheology and geoheritage, marine geosciences, petrology, metallogenesis, and mineral deposits.

The Art of Detection Vikas Publishing House

The new edition of Digital Learning: The Key Concepts is the perfect reference for anyone seeking to navigate the myriad of named concepts, approaches, issues and technologies associated with digital learning. Key terms are explained succinctly, making this book ideal to dip into for a quick answer, or to read from cover-to-cover, in order to gain a mastery of how digital concepts fit within the world of education. Fully updated to include important developments in digital practice and technology in education over the last ten years, this book takes the reader from A to Z through a range of relevant topics including: · Course design · Digital scholarship · Learning design · Open education · Personal learning environments · Social media and social networking. Ideal as an introductory guide, or as a reference book for ongoing referral, this quick-to-use and comprehensive guide is fully crossreferenced and complete with suggestions for further reading and exploration, making it an essential resource for anyone looking to extend their understanding of digital practices, techniques and pedagogic concepts.

Journal of Sedimentary Petrology CRC Press

1. IONIC SOLIDS 1-15 Types of Solids 1; Space Lattice, Lattice Point and Unit Cell of a Crystal 1; Ionic Crystal Structures 2; Structure of Sodium Chloride (Nacl) 3, Structure of Cesium Chloride (CsCl) 3; Limitations of Radius Ratio Rule 6; Lattice Energy 6; Factors Affecting Lattice Energy 7; Born- Haber Cycle 7; Solvation Energy 10; Definition of Solvation Energy 11; Factors Affecting Solvation and Solvation Energy 11; Polarization, Polarizing Power and Polarizability 12; Fajan's Rules 12. 2. METALLIC BONDING 16-23 Metallic Bonding 16; Factors Favoring the Formation of Metallic Bond 16; Electron Sea Theory 16; Metallic Properties 17; Thermal Conductivity 17; Electrical Conductivity 17; Malleability and Ductility 18; Metallic Luster 18; Valence Bond Theory 19; Band Theory : Molecular Orbital Approach 19; Band Structures of Conductors, Insulators and Semi-conductors 20. 3. HYDROGEN BONDING 24-27 Hydrogen Bonding 24; Types of Hydrogen Bond 25; Consequences of Hydrogen Bonding 26. 4. CHEMISTRY OF ELEMENTS OF FIRST TRANSITION SERIES 28-43 Properties of First Transition Series Elements 29; Atomic and Ionic Radii 30; Ionization Potential 31; Oxidation State 33; Magnetic Property 37; Complex Formation Tendency 40; Catalytic Property 40. 5. CHEMISTRY OF ELEMENTS OF SECOND AND THIRD TRANSITION SERIES 44-54 Electronic Configuration of Second Transition Series 44; Electronic Configuration of Third Transition Series 45. 6. ERRORS IN CHEMICAL ANALYSIS 55-69 Errors 55; Mean and Median 57; Accuracy and Precision 58; Methods of Expressing Accuracy 58; Methods of Expressing Precision 59; Uncertainty 63; Significant Figures 63; Calculations Involving Significant Figures 64; Rejection of Data 65; Q-Test 65; 2.5d and 4d Rule 67. 7. THEORY OF VOLUMETRIC ANALYSIS 70-85 Necessary Conditions for Volumetric or Titrimetric Reactions 70; Primary and Secondary Solutions 70; Expressions of Concentration of Solutions 71; Acid-Base Titrations (Acidimetry or Alkalimetry) 72; Theories of Acid-Base Indicator 73; Choice of Suitable Indicators for Different Acid-Base Titrations 76; Redox Titrations 78; Theory of Complexometric Titrations 81; Theory of Metallochrome Indicator 83. 8. NON- AQUEOUS SOLVENTS 86-102 Introduction 86; Physical Properties of a Solvent 88; General Characteristics of Solvents 90; Liquid Ammonia as a Non-Aqueous Solvent 90; Reactions Occurring in Liquid Ammonia 91; Liquid Sulphur Dioxide as Solvent 95. 9. FERTILIZERS 103-113 Functions of Fertilizers 103; Classification of Fertilizers 104; Chemical Fertilizers 104; Organic Manures 109; Bulky Organic Manures 110; Concentrated Organic Manure 111. 10. PORTLAND CEMENT 114-128 Raw Materials of Portland Cement 114; Chemical Composition of Portland Cement 115; Methods of Manufacturing of Portland Cement 115; Wet Process 115; Dry Process 116; Types of Portland Cement 116; Chemical Reaction in Rotary Kiln or Thermochemical Changes during Cement Formation 117; Setting of Cement 119; Time of Setting 120; Properties of Cement 120; Additives for Cement 121; Characteristics of Constitutional Compounds in Portland Cement 122; Mortars 124. · PAPERS 129-132

SCION: A Secure Internet Architecture Birkh ä user

"Completely revised and expanded throughout. Presents a comprehensive integrated, sequenced approach to drug dosage formulation, design, and evaluation. Indentifies the pharmacodynamic and physicochemical factors influencing drug action through various routes of administration."

INORGANIC CHEMISTRY Courier Corporation

This is a discount Black and white version. Some images may be unclear, please see BCCampus website for the digital version.This book was born out of a 2014 meeting of earth science educators representing most of the universities and colleges in British Columbia, and nurtured by a widely shared frustration that many students are not thriving in courses because textbooks have become too expensive for them to buy. But the real inspiration comes from a fascination for the spectacular geology of western Canada and the many decades that the author spent exploring this region along with colleagues, students, family, and friends. My goal has been to provide an accessible and comprehensive guide to the important topics of geology, richly illustrated with examples from western Canada. Although this text is intended to complement a typical first-year course in physical geology, its contents could be applied to numerous other related courses.

A Textbook of Inorganic Chemistry – Volume I Dalal Institute

Teacher digital resource package includes 2 CD-ROMs and 1 user guide. Includes Teacher curriculum guide, PowerPoint chapter presentations, an image gallery of photographs, illustrations, customizable presentations and student materials, Exam Assessment Suite, PuzzleView for creating word puzzles, and LessonView for dynamic lesson planning. Laboratory and activity disc includes the manual in both student and teacher editions and a lab materials list.