

## Elemental Geosystems 5th Edition

Explains the structure and functions of microprocessors, hard drives, disk drives, tape drives, keyboards, CD-ROM, multimedia sound and video, serial ports, mice, modems, scanners, LANs, and printers.

The book covers all the fundamentals of satellites, ground control systems, and earth stations, considering the design and operation of each major segment. You gain a practical understanding of the basic construction and usage of commercial satellite networks. How parts of a satellite system function, how various components interact, which role each component plays, and which factors are the most critical to success."

Note: If you are purchasing an electronic version, MasteringGeography does not come automatically packaged with it. To purchase MasteringGeography, please visit [www.MasteringGeography.com](http://www.MasteringGeography.com) or you can purchase a package of the physical text and MasteringGeography by searching for ISBN 10: 0133405524 / ISBN 13: 9780133405521. Respected for its scientific accuracy, currency and thoroughness, and for its integration of high quality figures and photos, Christopherson/Byrne/Giles, Geosystems Fourth Canadian edition is the name you can trust with the content your students will read.

CENGAGE ADVANTAGE BOOKS: THE SPEAKER'S COMPACT HANDBOOK, Second Edition, equips you with the essential information, tips, and tools you need to be an effective public speaker. Its spiral-bound, quick-reference format makes the handbook easy to use. And because each of its succinct chapters can stand alone, you can jump exactly to the topic you need to help you create a great speech. Two simple features--Key Points and Checklists--help you stay on track throughout the speech-building process. In addition to the material within the handbook, online interactive tools like Speech Builder Express(tm) 3.0 and InfoTrac College Edition help further develop your public speaking skills.

An overview of the geophysical techniques and analysis methods for monitoring subsurface carbon dioxide storage for researchers and industry practitioners.

Book Cover -- Title -- Copyright -- Contents -- List of illustrations -- List of tables -- Preface -- Acknowledgements -- Referencing -- Glossary and index -- CHAPTER 1 The Idea of the Past -- CHAPTER 2 Discovery and Investigation -- CHAPTER 3 Excavation -- CHAPTER 4 Dating the past -- CHAPTER 5 Archaeological science -- CHAPTER 6 Making sense of the past -- GLOSSARY -- BIBLIOGRAPHY -- INDEX

The West: Encounters and Transformations takes a new approach to telling the story of Western Civilization. Rather than looking at Western Civilization only as the history of Europe from ancient times to the present, this groundbreaking book examines the changing nature of the West how the definition of the West has evolved and transformed throughout history. It explores the ways Western civilization has changed as a result of cultural encounters with different beliefs, ideas, technologies, and peoples, both outside the West and within it. Presenting a balanced treatment of political, social, religious, and cultural history, this new text emphasizes the ever-shifting boundaries of the geographic and cultural realm of the West, with special attention given to Eastern Europe and the Muslim world, Africa, Asia, and the Americas.

Arsenic-contaminated groundwater is considered one of the world's largest environmental health crises, as more than 300 million people in more than one-third of

countries worldwide are at risk of groundwater arsenic poisoning. This book addresses how arsenic in groundwater impacts human health by using the frameworks of natural sciences, social sciences, and health sciences in the context set by environmental and legal considerations. *Arsenic in Groundwater: Poisoning and Risk Assessment* examines the spatial, quantitative, and qualitative aspects on arsenic poisoning; for instance, using geographical information systems (GIS) to investigate the spatial discontinuity of arsenic-laced water in spatial and temporal dimensions to uncover patterns of variations over scales from meters to kilometers. Spatial risk mapping provides insight for academics, researchers, policy makers, and politicians on possible long-term strategies for arsenic mitigation. Qualitative methodological approaches uncover the hidden issues of arsenic poisoning on human health and the related social implications. The book also examines legal aspects, such as the right to safe drinking water, as well as an in-depth look at how community participation can shape public policy. Features: Describes arsenic poisoning from both the scientific and social science perspectives Includes technical insights drawn from GIS-based modeling for spatial arsenic discontinuity and spatial health risks of arsenic poisoning Provides a state-of-the-art review of the human health literature and cutting-edge scientific evidence for arsenic-related health and social implications Examines the environmental justice and legal issues of drinking water and its quality Presents environmental policy and public mitigation strategies with Public Participation GIS (PPGIS) related to arsenic contamination More than 2,000 references serve as valuable resources for various aspects of arsenic poisoning

Elemental Geosystems Pearson

Carbon in Earth's fluid envelopes - the atmosphere, biosphere, and hydrosphere, plays a fundamental role in our planet's climate system and a central role in biology, the environment, and the economy of earth system. The source and original quantity of carbon in our planet is uncertain, as are the identities and relative importance of early chemical processes associated with planetary differentiation. Numerous lines of evidence point to the early and continuing exchange of substantial carbon between Earth's surface and its interior, including diamonds, carbon-rich mantle-derived magmas, carbonate rocks in subduction zones and springs carrying deeply sourced carbon-bearing gases. Thus, there is little doubt that a substantial amount of carbon resides in our planet's interior. Yet, while we know it must be present, carbon's forms, transformations and movements at conditions relevant to the interiors of Earth and other planets remain uncertain and untapped. Volume highlights include: - Reviews key, general topics, such as carbonate minerals, the deep carbon cycle, and carbon in magmas or fluids - Describes new results at the frontiers of the field with presenting results on carbon in minerals, melts, and fluids at extreme conditions of planetary interiors - Brings together emerging insights into carbon's forms, transformations and movements through study of the dynamics, structure, stability and reactivity of carbon-based natural materials - Reviews emerging new insights into the properties of allied substances that carry carbon, into the rates of chemical and physical transformations, and into the complex interactions between moving fluids, magmas, and rocks to the interiors of Earth and other planets - Spans the various chemical redox states of carbon, from reduced hydrocarbons to zero-valent diamond and graphite to oxidized CO<sub>2</sub> and carbonates - Captures and synthesizes the exciting results of recent, focused efforts in an emerging scientific discipline - Reports advances over the last decade that have led to a major leap forward in our understanding of carbon science - Compiles the range of methods that can be tapped tap from the deep carbon community, which includes experimentalists, first principles theorists, thermodynamic modelers and

geodynamicists - Represents a reference point for future deep carbon science research  
Carbon in Planetary Interiors will be a valuable resource for researchers and students who study the Earth's interior. The topics of this volume are interdisciplinary, and therefore will be useful to professionals from a wide variety of fields in the Earth Sciences, such as mineral physics, petrology, geochemistry, experimentalists, first principles theorists, thermodynamics, material science, chemistry, geophysics and geodynamics.

This title explores current issues and developing trends from a geographic perspective, providing a solid foundation in the fundamentals of human geography, and giving meaning to people and places by integrating compelling local, regional, and global viewpoints.

This primary source reader in the popular DISCOVERING series contains a six-part pedagogical framework that guides students through the process of historical inquiry and explanation. The text emphasizes historical study as interpretation rather than memorization of data. Each chapter is organized around the same pedagogical framework: The Problem, Background, The Method, The Evidence, Questions to Consider, and Epilogue. Volume 1 of the Eighth Edition integrates new documents and revised coverage throughout. For example, there are new chapters on creation stories and culture in colonial America, the transition to racial slavery in Virginia, women's rights, and Civil War nurses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Encyclopedia of Caves and Karst Science contains 350 alphabetically arranged entries. The topics include cave and karst geoscience, cave archaeology and human use of caves, art in caves, hydrology and groundwater, cave and karst history, and conservation and management. The Encyclopedia is extensively illustrated with photographs, maps, diagrams, and tables, and has thematic content lists and a comprehensive index to facilitate searching and browsing.

This volume gives comprehensive coverage of the key topics of macroeconomics and it includes integration of classical and Keynesian approaches, in-depth coverage of two cases and extensive applications and examples.

Crime . . . Poverty . . . Racism. George rose above it all. His journey through Foster Care was at times difficult, at times touching and at times very funny. His story will inspire anyone working with young people. Especially those in Foster and Adoptive Care, from Foster Parents to Youth, Social Workers and Foster Care Agencies. While his story begin with crime, poverty and racism, it ends with love, belonging and hope. Love . . . Belonging . . . Hope

Arsenic in drinking water derived from groundwater is arguably the biggest environmental chemical human health risk known at the present time, with well over 100,000,000 people around the world being exposed. Monitoring the hazard, assessing exposure and health risks and implementing effective remediation are therefore key tasks for organisations and individuals with responsibilities related to the supply of safe, clean drinking water. Best Practice Guide on the Control of Arsenic in Drinking Water, covering aspects of hazard distribution, exposure, health impacts, biomonitoring and remediation, including social and economic issues, is therefore a very timely contribution to disseminating useful knowledge in this area.

The volume contains 10 short reviews of key aspects of this issue, supplemented by a further 14 case studies, each of which focusses on a particular area or technological or other practice, and written by leading experts in the field. Detailed selective reference lists provide pointers to more detailed guidance on relevant practice. The volume includes coverage of (i) arsenic hazard in groundwater and exposure routes to humans, including case studies in USA, SE Asia and UK; (ii) health impacts arising from exposure to arsenic in drinking water and biomonitoring approaches; (iii) developments in the nature of regulation of arsenic in drinking water; (iv) sampling and monitoring of arsenic, including novel methodologies; (v) approaches to remediation, particularly in the context of water safety planning, and including case studies

from the USA, Italy, Poland and Bangladesh; and (vi) socio-economic aspects of remediation, including non-market valuation methods and local community engagement.

Spatial thinking is "a constructive combination of concepts of space, tools of representation, and processes of reasoning" uses space to structure problems, find answers, and express solutions. It is powerful and pervasive in science, the workplace, and everyday life. By visualizing relationships within spatial structures, we can perceive, remember, and analyze the static and dynamic properties of objects and the relationships between objects. Despite its crucial role underpinning the National Standards for Science and Mathematics, spatial thinking is currently not systematically incorporated into the K-12 curriculum. Learning to Think Spatially: GIS as a Support System in the K-12 Curriculum examines how spatial thinking might be incorporated into existing standards-based instruction across the school curriculum. Spatial thinking must be recognized as a fundamental part of K-12 education and as an integrator and a facilitator for problem solving across the curriculum. With advances in computing technologies and the increasing availability of geospatial data, spatial thinking will play a significant role in the information-based economy of the 21st-century. Using appropriately designed support systems tailored to the K-12 context, spatial thinking can be taught formally to all students. A geographic information system (GIS) offers one example of a high-technology support system that can enable students and teachers to practice and apply spatial thinking in many areas of the curriculum.

Updated throughout, this highly readable best-seller presents basic concepts and practical material in each of the areas fundamental to modern surveying (geomatics) practice. Its depth and breadth are ideal for self-study. KEY TOPICS: Includes new discussions on the impact of the new L2C and L5 signals in GPS and on the effects of solar activity in GNSS surveys. Other new topics include an additional method of computing slope intercepts; an introduction to mobile mapping systems; 90% revised problems; and new Video Solutions. MARKET: A useful reference for civil engineers

The perfect balance of science and story Brief chapters are written like science news articles, combining compelling science with intriguing stories. The Second Edition features NEW stories on exciting topics such as CRISPR and the human microbiome, and expanded coverage of the course's most important content areas. Biology Now is written by an author team made up of a science writer and two experienced teachers. Expanded pedagogy in the book and online encourages students to think critically and engage with biology in the world around them.

The book focuses on the management of the aquatic environment. It is aimed at scientists, students, governmental officials and specialists dealing with groundwater and environment. Its main goal is to inform the reader of ideas, knowledge and experience in terms of a sustainable aquatic environment. The main topics are as follows: Water Bodies and Ecosystems; Climate Change and

Water Bodies; Water quality and agriculture; Interaction of Surface and ground waters; Karst Hydrogeology; Continuous Media Hydrogeology; Fissured Rocks Hydrogeology; Hydrochemistry; Geothermics and thermal waters; The role of water in construction projects; Hydrology

PLEASE PROVIDE COURSE INFORMATION Ideal for use with any text on Physical Geography, this laboratory manual contains step-by-step exercises that help students apply essential geographic principles, methods, and tools to better understand Earth and its systems. Organization of each lab exercise chapter entails an introduction, key terms and concepts listing, objectives of the chapter, and a listing of materials and sources needed to complete the exercises. The initial laboratory exercise is called the Prologue Lab and is unique to this manual. The assignments in the Prologue are meant to span the entire term and will provide students with the tools of spatial analysis that are at the core of geography.

This comprehensive volume blends broad coverage of basic methods for symbolizing spatial data with an introduction to cutting-edge data visualization techniques. KEY TOPICS: Offers clear descriptions of various aspects of effective, efficient map design, with an emphasis on the practical application of design theories and appropriate use of map elements. Clearly contrasts different approaches for symbolizing spatial data, in addition to individual mapping techniques. This edition includes updated material on the history of thematic cartography, maps and society, scale and generalization, and cartograms and flow mapping. For those interested in learning more about cartography.

Enhanced analytical capabilities and separation techniques, improved detection limits, and accessibility of instrumentation have led to massive strides in the use of isotopes to assess microbial processes in surface and subsurface sediments. Considering the rapid growth of research and commercial interest in stable isotope and radioisotope applications for contaminant hydrology and microbial ecology, an up-to-date overview of the field is long overdue. Environmental Isotopes in Biodegradation and Bioremediation comprehensively covers established and emerging isotope methods for environmental applications, focusing on biodegradation and bioremediation. This book is an invaluable tool for researchers, practitioners, and regulators who require an extensive understanding of the application of isotope methods to natural compounds and environmental contaminants. It addresses questions including: What amount of a compound comes from anthropogenic release? Do the chemicals involved undergo degradation in the environment? Do they persist and accumulate? This book is divided into four sections: Isotope Fundamentals covers important background and theoretical information needed to understand later chapters Isotopes and Microbial Processes discusses the application of isotopes to different environmental redox conditions that dictate the predominant microbial processes that will occur Isotopes in Field Applications describes the transformation of anthropogenic pollutants and the application of isotope tools to

field sites Isotope Emerging Areas addresses the use of compounds labeled with stable isotopes, including stable isotope probing and the use of radiocarbon at natural abundance and novel stable isotopes This reference details how isotope tools can be used to gain insight into the origin and fate of natural compounds and contaminants in the environment. Integrating theoretical and practical knowledge, the authors examine the principles of isotope tools and then present an extensive overview of key environmental processes that can be investigated with isotope methods. They also discuss analytical and data evaluation procedures, addressing established and emerging applications. To illustrate concepts and methodology, the authors use a wide range of case studies and recent field and laboratory research from various disciplines currently employing these methods. This book is a valuable tool for expanding the application of both stable isotopes and radioisotopes into untapped areas.

This book is the result of collaboration within the frames of the 5th International Conference "Trigger Effects in Geosystems" held in the Institute of Geosphere Dynamics of Russian Academy of Sciences, June 2019. This book aims to raise awareness about different triggering aspects in the geosphere and its effects. The conference provided a multidisciplinary platform with a focus on (i) the influence of natural and anthropogenic factors on the geosphere, geomechanical systems and anthropogenic objects found in a subcritical state and (ii) the influence of these factors on the system "atmosphere - ionosphere". The problems considered in the book may be interesting for a wide audience including students, professionals, researches, and for the industry.

The 5th Edition of Visualizing Environmental Science provides students with a valuable opportunity to identify and connect the central issues of environmental science through a visual approach. Beautifully illustrated, this fifth edition shows students what the discipline is all about—its main concepts and applications—while also instilling an appreciation and excitement about the richness of the subject. This edition is thoroughly refined and expanded; the visuals utilize insights from research on student learning and feedback from users.

This book provides a clear introduction to topics which are essential to students in a wide range of scientific disciplines but which are otherwise only covered in specialised and mathematically detailed texts. It shows how crystal structures may be built up from simple ideas of atomic packing and co-ordination, it develops the concepts of crystal symmetry, point and space groups by way of two dimensional examples of patterns and tilings, it explains the concept of the reciprocal lattice in simple terms and shows its importance in an understanding of light, X-ray and electron diffraction. Practical examples of the applications of these techniques are described and also the importance of diffraction in the performance of optical instruments. The book is also of value to the general reader since it shows, by biographical and historical references, how the subject has developed and thereby indicates some of the excitement of scientific discovery.

Among the most highly regarded in physical geography, Robert Christopherson's bestselling texts are known for meticulous attention to detail, currency, accuracy, rich integration of climate change science, and strong multimedia programs. Geosystems: An Introduction to Physical Geography, Eighth Edition is organized around the natural flow of energy, materials, and information, presenting subjects in the same sequence in which they occur in nature-an organic, holistic approach that is unique in this discipline. Each chapter also includes strong

pedagogical tools and a structured learning path, with Key Learning Concepts presented at the start of the chapter, Key Learning Concepts Review at the end of the chapter, and Critical Thinking questions integrated throughout.

Emphasizing the relationship between human resource management and student learning, this book is driven by recent research, yet offers realistic applications throughout. In addition to discussing human resource functions, this text emphasizes how human resource decisions affect student achievement. It also discusses human resource practice in schools with site-based management, addresses ISLLC standards, and shows practical applications for research related to human resource practice. Hallmark Features Contains case studies to give students a detailed picture of various personnel problems. Four new case studies-- No Child Left Behind, teacher recruitment and selection, reductions in force, and teacher dismissal-- focus on recent developments in the field. Describes five major forms of collective bargaining used in school districts. Contains a major section on site-based management that reflects current practice in schools and districts. " Suggested Activities" at the end of each chapter provide practical applications. Annotated lists of Online Resources at the end of each chapter provide quick access to supplemental material. Discussion of teacher and administrator shortages-- particularly among minority candidates-- examines this important issue and its effect on learning. Visit our Ed Leadership SuperSite at [www.ablongman.com/edleadership](http://www.ablongman.com/edleadership) for additional information and leadership resources specific to this text!

From recent developments in digital image processing to the next generation of satellite systems, this book provides a comprehensive introduction to the field of remote sensing and image interpretation. This book is discipline neutral, so readers in any field of study can gain a clear understanding of these systems and their virtually unlimited applications. \* The authors underscore close interactions among the related areas of remote sensing, GIS, GPS, digital image processing, and environmental modeling. \* Appendices include material on sources of remote sensing data and information, remote sensing periodicals, online glossaries, and online tutorials.

In response to a request from Congress, Surface Temperature Reconstructions for the Last 2,000 Years assesses the state of scientific efforts to reconstruct surface temperature records for Earth during approximately the last 2,000 years and the implications of these efforts for our understanding of global climate change. Because widespread, reliable temperature records are available only for the last 150 years, scientists estimate temperatures in the more distant past by analyzing "proxy evidence," which includes tree rings, corals, ocean and lake sediments, cave deposits, ice cores, boreholes, and glaciers. Starting in the late 1990s, scientists began using sophisticated methods to combine proxy evidence from many different locations in an effort to estimate surface temperature changes during the last few hundred to few thousand years. This book is an important resource in helping to understand the intricacies of global climate change.

This book provides a general survey of Geocryology, which is the study of frozen ground called permafrost. Frozen ground is the product of cold climates as well as a variety of environmental factors. Its major characteristic is the accumulation of large quantities of ice which may exceed 90% by volume. Soil water changing to ice results in ground heaving, while thawing of this ice produces ground subsidence often accompanied by soil flowage. Permafrost is very susceptible to changes in weather and climate as well as to changes in the microenvironment. Cold weather produces contraction of the ground, resulting in cracking of the soil as well as breakup of concrete, rock, etc. Thus permafrost regions have unique landforms and processes not found in warmer lands. The book is divided into three parts. Part 1 provides an introduction to the characteristics of permafrost. Four chapters deal with its definition and characteristics, the unique processes operating there, the factors affecting it, and its general distribution. Part 2 consists of seven chapters describing the characteristic landforms unique to these areas and

the processes involved in their formation. Part 3 discusses the special problems encountered by engineers in construction projects including settlements, roads and railways, the oil and gas industry, mining, and the agricultural and forest industries. The three authors represent three countries and three language groups, and together have over 120 years of experience of working in permafrost areas throughout the world. The book contains over 300 illustrations and photographs, and includes an extensive bibliography in order to introduce the interested reader to the large current literature. Finalist of the 2019 PROSE Awards.

This spiral-bound geography lab manual is the first in its field to employ Google Earth™ exercises. The Seventh Edition contains newly enhanced stereo pairs and topographical maps, and comes packaged with a handy acetate and stereo lenses. Latitude, Longitude, and Time, Directions and Compass Readings, Map Projections, Map, Reading, and Interpretation, Contours and Topographic Maps, Earth-Sun Relationships, Insolation, and Seasons, Temperature Concepts and Patterns, Earth's Atmosphere: Pressure Profiles and Pressure Patterns, Atmospheric Humidity, Stability, and Adiabatic Processes, Weather Maps, Water Balance and Water Resources, Global Climate Systems, Plate Tectonics: Global Patterns and Volcanism, Recurrence Intervals for Natural Events, Topographic Analysis: Fluvial Geomorphology, Topographic Analysis: Glacial Geomorphology, Topographic Analysis: Coastal and Arid Geomorphology, Topographic Analysis: Karst Landscapes, Soils, Biomes: Analyzing Global Terrestrial Ecosystems, An Introduction to Geographic Information Systems. MARKET: For anyone interested in learning more about geography.

Presented in two volumes for maximum flexibility, Patterns of World History, Brief Fourth Edition, offers a distinct framework for understanding the global past through the study of origins, interactions, and adaptations. The authors examine the full range of human ingenuity over time and space in a comprehensive, evenhanded, and critical fashion. They offer a distinct intellectual framework for the role of innovation and historical change through patterns of origins, interactions, and adaptations. The Brief Edition offers a streamlined narrative and the lowest price points of any full-color world history textbook currently available. DIGITAL RESOURCES Visit [www.oup.com/he/vonsivers4e](http://www.oup.com/he/vonsivers4e) for a wealth of digital resources for students and instructors, including an enhanced eBook with embedded learning tools and the Oxford Insight Study Guide, which delivers custom-built adaptive practice sessions based on students' performance.

For introductory physical geography courses. Explore Earth's dynamic, changing systems Among the most highly regarded textbooks in physical geography, Robert Christopherson's best-selling Elemental Geosystems retains its unparalleled currency, accuracy, rich integration of climate change science, and dynamic multimedia program. Organized around the natural flow of energy, materials, and information, subjects are presented in the same sequence in which they occur in nature-an organic, holistic approach that is unique in this discipline. The 9th Edition features updated content and new Mastering Geography activities, while also incorporating new visual media, active learning activities, and visual tools to help student engagement and mastery. Also available with Mastering Geography Mastering(tm) is the teaching and learning platform that empowers you to reach every student. By combining trusted author content with digital tools developed to engage students and emulate the office-hour experience, Mastering personalizes learning and often improves results for each student. With a variety of activities available, students can actively learn, understand, and retain even the most difficult personal health concepts. Note: You are purchasing a standalone product; Mastering Geography does not come packaged with this content. Students, if interested in purchasing this title with Mastering Geography, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and Mastering Geography, search for: 0134818369 / 9780134818368 Elemental Geosystems Plus Mastering Geography with

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The 35th International Meeting of Sedimentology supported by the International Association of Sedimentologists is an annual conference with global impact among the community of sedimentary geologists. Original scheduled at June 2020, the 35 the IAS Meeting of Sedimentology was postponed to June 21-25, 2021, and will be held virtually. The main convenor, Ondřej Bábek, is an employee of Palacký University Olomouc.

During the recent decades, social, political and academic endeavours have been made to improve environmental quality and reduce pollution. In particular, the ocean, sea and coastal areas show varying degrees of impact from the multiple human activities carried out in the terrestrial as well as in the aquatic environment. Ecology is a science which studies the relationship between organisms and the surrounding environment and in the modern era, the marine world is getting increasing attention. For centuries it has been the final reservoir of human garbage; later it became an oil farm with a concomitant increase of coastal population growth and unplanned growth of the fishing industry and the increasing use of sea routes for cargo transport and recreational uses (cruises). All this led to rising contamination with negative effects on biota and even human health. It is then imperative to know the current situation of the world's oceans: that is the main purpose of this book, to document at a glance the latest research in the field of ocean pollution.

First published in 1923, the Rand McNally Goode's World Atlas is the number-one college reference atlas used in the United States. Using the latest in geographic information technology, Goode's World Atlas offers carefully researched and well-designed maps on a variety of topics. The 21st edition reflects the changing world with a host of new maps and information.

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