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4CB - ADKINS FLORES

This 1983 volume is concerned with the features of and the laws governing the occurrence of water in the interior of the Earth. Special attention is paid to the origin of the water in the interior of the Earth, its movements and its changes of state.
Developments in Geotectonics, 10: The Expanding Earth focuses on the principles, methodologies, transformations, and approaches involved in the expanding earth concept. The book first elaborates on the development of the expanding earth concept, necessity for expansion, and the subduction myth. Discussions focus on higher velocity under Benioff zone, seismic attenuation, blue schists and paired metamorphic belts, dispersion of polygons, arctic paradox, and kinematic contrast. The manuscript then ponders on the scale of tectonic phenomena, non-uniformitarianism, tectonic profiles, and paleomagnetism. Concerns cover global paleomagnetism, general summary of the tectonic profile, implosions, fluid pressures, pure shear, crustal extension, simple shear with horizontal axis, geological examples of scale fields, and length-time fields of deformation. The publication explores the cause of expansion, modes of crustal extension, and rotation and asymmetry of the earth, including dynamic asymmetry, precessions, nutations, librations, and wobbles at fixed obliquity, variation of rate of rotation, and categories of submarine ridges. The text is a dependable source of data for researchers wanting to study the concept of expanding earth.
Written by a team of world-renowned artists, researchers and practitioners - all pioneers in using augmented reality based creative works and installations as a new form of art - this is the first book to explore the exciting new field of augmented reality art and its enabling technologies. As well as investigating augmented reality as a novel artistic medium the book covers cultural, social, spatial and cognitive facets of augmented reality art. Intended as a starting point for exploring this new fascinating area of research and creative practice it will be essential reading not only for artists, researchers and technology

developers, but also for students (graduates and undergraduates) and all those interested in emerging augmented reality technology and its current and future applications in art.

Lucas' "The Art of Public Speaking" is the leading public speaking textbook in the field. Whether a novice or an experienced speaker when beginning the course, every student will learn how to be a better public speaker through Lucas' clear explanations. Creative activities, vivid examples, annotated speech samples, and foundation of classic and contemporary rhetoric provide students a strong understanding of public speaking. When instructors teach from this textbook, they benefit from Lucas' Integrated Teaching Package. The Annotated Instructor's Edition and Instructor's Manual, both written by Steve Lucas, provide teaching tips and give outlines on how to use the various supplements. As a result, instructors are able to see various teaching examples, how to integrate technology, and analyses and discussion questions for video clips in class. The Annotated Instructor's Edition, Instructor's Manual, Test Bank, CDs, videos, and other supplements provide instructors the tools needed to create a dynamic classroom. This edition has a supplement to meet the needs of online classes, Teaching Public Speaking Online with The Art of Public Speaking.

Ideal for planning family vacations, "Econoguide 2002 London provides all the information savvy, budget-minded travelers need. This basic guide shows travelers how to get the most out of their money and time--no matter what their budget might be. Loaded with up-to-the-minute information, it provides insider tips on how readers can stretch their travel dollars with money-saving advice on how to get there (affordable airline tickets on the best flights) and where to stay (the best hotel deals)--plus advice on how to find the right restaurants and tickets to attractions at the right price. This Econoguide includes: "Power Trips"--step-by-step daily itineraries that help travelers make the most of their day without losing their patience--or their life savingsDozens of money-saving coupons for hotels, car rentals, attractions, restaurants, vacation packages, and shops--save up to $2,000Up--to-the-minute information

Relates the physical and geometric elegance of geologic structures within the Earth's crust and the ways in which these structures reflect the nature and origin of crystal deformation through time. The main thrust is on applications in regional tectonics, exploration geology, active tectonics and geohydrology. Techniques, experiments, and calculations are described in detail, with the purpose of offering active participation and discovery through laboratory and field work.

Valves are the components in a fluid flow or pressure system that regulate either the flow or the pressure of the fluid. They are used extensively in the process industries, especially petrochemical. Though there are only four basic types of valves, there is an enormous number of different kinds of valves within each category, each one used for a specific purpose. No other book on the market analyzes the use, construction, and selection of valves in such a comprehensive manner. Covers new environmentally-conscious equipment and practices, the most important hot-button issue in the petrochemical industry today Details new generations of valves for offshore projects, the oil industry's fastest--

growing segment Includes numerous new products that have never before been written about in the mainstream literature
The book contains 40 articles written by forward-thinking speakers who presented their findings at the "Communicating European Research 2005" event which was organised by the European Commission in Brussels on 14-15 November 2005. The contents of this book clearly illustrate that a highly important element of research projects funded by the European Union is communication. Authors include scientists, journalists and communication professionals.
In the course of the hundreds of Rio Chama rafting trips that we've logged during the last 30 years, none of us has ever had a bad trip. Such is the magic of the Rio Chama. No matter the weather, the water level, the season, the crowded Big Eddy boat ramp on a blistering Sunday afternoon, or even the coffee forgotten at home, the Rio Chama remains "The People's River." Its stunning beauty, plus its exceptional camping, user-friendly whitewater, and mostly predictable flows, combine to create one of the Southwest's premiere, multi-day, river running experiences.The spectacular, towering canyon walls of the Wild & Scenic section through the remote Chama River Canyon Wilderness is New Mexico's own "Grand Canyon." The geology of the Rio Chama is so exceptional that this river is ideally suited for a river guide with a geological theme. And so, following the release of the Rio Grande geologic river guide in 2011, we turned our (part-time) attention to the Rio Chama. Although most Rio Chama recreation is focused on the El Vado to Big Eddy stretch, thedecision was easily made to include the entire boatable section, from the highlands in Colorado to the confluence with the Rio Grande, as each section of the river displays its own visual spectacles and assortment of adventures. Plus, the geology is magnificent and diverse along the entire length of the river.

A Dinosaur Made Me Sneeze is a rip-roaring adventure traveling the rock cycle, cruising through time, and landing home in time for dinner! This incredible story introduces changes through the Earth's history, three types of rocks, and more! Watch out for asteroids and volcanoes along the way!
'Karplus's tales of a turbulent graduate school experience at Caltech will inspire readers to muster fortitude when everything seems to be spinning out of control. Karplus balances rigorous scientific discussions with refreshing chapters expounding his passion for photography and gastronomy.'Nature Chemistry, May 2020Nobel Laureate Martin Karplus was eight when his family fled Nazi-occupied Austria via Switzerland and France for the United States. He would later credit his life as a refugee as a decisive influence on his world view and approach to science.Spinach on the Ceiling is an autobiographical telling of Karplus' life story, and how it led him to win the Nobel Prize in Chemistry in 2013. The book captures pivotal moments in Martin's life — from his escape to Switzerland in 1938 shortly after Hitler's entrance into Austria; to memorable moments like when his parents gave him a microscope which opened his eyes to the wonders of science; to his education in New England and California; and his eventual scientific career which took him to England, Illinois, Columbia, Strasbourg, and Harvard. It relates how Martin's optimistic outlook and belief in his vision made it possible for him to overcome setbacks in his life, and turn

a subject of study his colleagues considered a waste of time into a central part of chemistry and structural biology. It is his hope to inspire and aid young readers, in particular, to have a successful trajectory in their own lives. Although research and teaching have been his primary focus, he has traveled the world photographing people and places with a Leica IIIC and has had numerous exhibitions of the photographs. He has also enjoyed a lifelong interest in cooking and worked in some of the best restaurants in France and Spain.

We are poised to embark on a new era of discovery in the study of geomorphology. The discipline has a long and illustrious history, but in recent years an entirely new way of studying landscapes and seascapes has been developed. It involves the use of 3D seismic data. Just as CAT scans allow medical staff to view our anatomy in 3D, seismic data now allows Earth scientists to do what the early geomorphologists could only dream of - view tens and hundreds of square kilometres of the Earth's subsurface in 3D and therefore see for the first time how landscapes have evolved through time. This volume demonstrates how Earth scientists are starting to use this relatively new tool to study the dynamic evolution of a range of sedimentary environments.

This is the academic Age of the Neoliberal Arts. Campuses—as places characterized by democratic debate and controversy, wide ranges of opinion typical of vibrant public spheres, and service to the larger society—are everywhere being creatively destroyed in order to accord with market and military models befitting the academic-industrial complex. While it has become increasingly clear that facilitating the sustainability movement is the great 21st century educational challenge at hand, this book asserts that it is both a dangerous and criminal development today that sustainability in higher education has come to be defined by the complex-friendly “green campus” initiatives of science, technology, engineering and management programs. By contrast, Greening the Academy: Ecopedagogy Through the Liberal Arts takes the standpoints of those working for environmental and ecological justice in order to critique the unsustainable disciplinary limitations within the humanities and social sciences, as well as provide tactical reconstructive openings toward an empowered liberal arts for sustainability. Greening the Academy thus hopes to speak back with a collective demand that sustainability education be defined as a critical and moral vocation comprised of the diverse types of humanistic study that will benefit the well-being of our emerging planetary community and its numerous common locales.

Why our human brains are awesome, and how we left our cousins, the great apes, behind: a tale of neurons and calories, and cooking. Humans are awesome. Our brains are gigantic, seven times larger than they should be for the size of our bodies. The human brain uses 25% of all the energy the body requires each day. And it became enormous in a very short amount of time in evolution, allowing us to leave our cousins, the great apes, behind. So the human brain is special, right? Wrong, according to Suzana Herculano-Houzel. Humans have developed cognitive abilities that outstrip those of all other animals, but not because we are evolutionary outliers. The human brain was not singled out to become amazing in its own exclusive way, and it never stopped being a primate brain. If we

are not an exception to the rules of evolution, then what is the source of the human advantage? Herculano-Houzel shows that it is not the size of our brain that matters but the fact that we have more neurons in the cerebral cortex than any other animal, thanks to our ancestors' invention, some 1.5 million years ago, of a more efficient way to obtain calories: cooking. Because we are primates, ingesting more calories in less time made possible the rapid acquisition of a huge number of neurons in the still fairly small cerebral cortex—the part of the brain responsible for finding patterns, reasoning, developing technology, and passing it on through culture. Herculano-Houzel shows us how she came to these conclusions—making “brain soup” to determine the number of neurons in the brain, for example, and bringing animal brains in a suitcase through customs. The Human Advantage is an engaging and original look at how we became remarkable without ever being special.

To help students communicate their mathematical thinking, many teachers have created classrooms where math talk has become a successful and joyful instructional practice. Building on that success, the ideas in Why Write in Math Class? help students construct, explore, represent, refine, connect, and reflect on mathematical ideas. Writing also provides teachers with a window into each student's thinking and informs instructional decisions. Focusing on five types of writing in math (exploratory, explanatory, argumentative, creative, and reflective), Why Write in Math Class? offers a variety of ways to integrate writing into the math class. The ideas in this book will help you make connections to what you already know about the teaching of writing within literacy instruction and build on what you've learned about the development of classroom communities that support math talk. The authors offer practical advice about how to support writing in math, as well as many specific examples of writing prompts and tasks that require high-cognitive demand. Extensive stories and samples of student work from K-5 classrooms give a vision of how writing in math class can successfully unfold.

For the first time in Earth's history, our planet is experiencing a confluence of rapidly accelerating changes prompted by one species: humans. Climate change is only the most visible of the modifications we've made--up until this point, inadvertently--to the planet. And our current behavior threatens not only our own future but that of countless other creatures. By comparing Earth's story to those of other planets, astrobiologist David Grinspoon shows what a strange and novel development it is for a species to evolve to build machines, and ultimately, global societies with world-shaping influence. Without minimizing the challenges of the next century, Grinspoon suggests that our present moment is not only one of peril, but also great potential, especially when viewed from a 10,000-year perspective. Our species has surmounted the threat of extinction before, thanks to our innate ingenuity and ability to adapt, and there's every reason to believe we can do so again. Our challenge now is to awaken to our role as a force of planetary change, and to grow into this task. We must become graceful planetary engineers, conscious shapers of our environment and caretakers of Earth's biosphere. This is a perspective that begs us to ask not just what future do we want to avoid, but what do we seek to build?

What kind of world do we want? Are humans the worst thing or the best thing to ever happen to our planet? Today we stand at a pivotal juncture, and the answer will depend on the choices we make.

The Monteverde Cloud Forest Reserve has captured the attention of biologists, conservationists and ecologists and has been the setting for extensive investigation over the past 30 years. This provides information on this ecosystem and the biota.

This manual provides guidance on evaluating the condition of the concrete in a structure, relating the condition of the concrete to the underlying cause or causes of that condition, selecting an appropriate repair material and method for any deficiency found, and using the selected materials and methods to repair or rehabilitate the structure. Guidance is also included on maintenance of concrete and on preparation of concrete investigation reports for repair and rehabilitation projects. Considerations for certain specialized types of rehabilitation projects are also given.

This fascinating new volume comes complete with color illustrations and features the methodology and main achievements in the emerging field of paleomicrobiology. It’s an area research at the intersection of microbiology and evolution, history and anthropology. New molecular approaches have already provided exciting results, such as confirmation of a single biotype of Yersinia pestis as the cause of historical plague pandemics. An absorbing read for scientists in related fields.

As the Ice Age waned, Clovis hunter--gatherers began to explore and colonize the area now known as Colorado. Their descendents and later Paleoindian migrants spread throughout Colorado's plains and mountains, adapting to diverse landforms and the changing climate. In this new volume, Robert H. Brunswig and Bonnie L. Pitblado assemble experts in archaeology, paleoecology-climatology, and paleofaunal analysis to share new discoveries about these ancient people of Colorado. The editors introduce the research with scientific context. A review of seventy-five years of Paleoindian archaeology in Colorado highlights the foundation on which new work builds, and a survey of Colorado's ancient climates and ecologies helps readers understand Paleoindian settlement patterns. Eight essays discuss archaeological evidence from Plains to high Rocky Mountain sites. The book offers the most thorough analysis to date of Dent--the first Clovis site discovered. Essays on mountain sites show how advances in methodology and technology have allowed scholars to reconstruct settlement patterns and changing lifeways in this challenging environment. Colorado has been home to key moments in human settlement and in the scientific study of our ancient past. Readers interested in the peopling of the New World as well as those passionate about the methods and history of archaeology will find new material and satisfying overviews in this book. Contributors include Rosa Maria Albert, Robert H. Brunswig, Reid A. Bryson, Linda Scott Cummings, James Doerner, Daniel C. Fisher, David L. Fox, Bonnie L. Pitblado, Jeffrey L. Saunders, Todd A. Surovell, R. A. Varney, and Nicole M. Waguespack.

This clear, lively, and systematic presentation examines the scientific evidence for evolution and reaches for the widest possible audience—from scientific minds to those with no science background at all. Forcefully rejecting creationist objections to evolution and including a critique of In-

telligent Design, it argues that they are part of a larger social agenda. With discussion that celebrates the fascination to be found in studying the diversity and complexity of life, this examination suggests with some urgency that the science of evolution is crucial to the existence of science itself.

Mutualistic interactions among plants and animals have played a paramount role in shaping biodiversity. Yet the majority of studies on mutualistic interactions have involved only a few species, as opposed to broader mutual connections between communities of organisms. Mutualistic Networks is the first book to comprehensively explore this burgeoning field. Integrating different approaches, from the statistical description of network structures to the development of new analytical frameworks, Jordi Bascompte and Pedro Jordano describe the architecture of these mutualistic networks and show their importance for the robustness of biodiversity and the coevolutionary process. Making a case for why we should care about mutualisms and their complex networks, this book offers a new perspective on the study and synthesis of this growing area for ecologists and evolutionary biologists. It will serve as the standard reference for all future work on mutualistic interactions in biological communities.

This reprint of a 1920 article by the famous archeologist of the Southwest details the excavation and restoration of one of the largest kivas ever discovered. Includes photographs of the excavated kiva before it was reconstructed.

This book provides extensive research into the use of augmented reality in the three interconnected and overlapping fields of the tourism industry, museum exhibitions, and cultural heritage. It is written by a virtual team of 50 leading researchers and practitioners from 16 countries around the world. The authors explore the opportunities and challenges of augmented reality applications, their current status and future trends, informal learning and heritage preservation, mixed reality environments and immersive installations, cultural heritage education and tourism promotion, visitors with special needs, and emerging post-COVID-19 museums and heritage sites. Augmented Reality in Tourism, Museums and Heritage: A New Technology to Inform and Entertain is essential reading not only for researchers, application developers, educators, museum curators, tourism and cultural heritage promoters, but also for students (both graduates and undergraduates) and anyone who is interested in the efficient and practical use of augmented reality technology.

This volume presents the work of researchers at many sites spanning the East African Pliocene. The authors take a broad approach that seeks to compare paleoenvironmental and paleoecological patterns across localities and among various taxonomic groups. This volume aims to synthesize large amounts of faunal data, and to present the evolution of East African vertebrates in the context of environmental and climatic changes during the Pliocene.