

Ib Geography Sl 2013 Past Paper

Routledge International Handbook of Working-Class Studies **Quaternary of the Levant** **Environmental Factors in Neurodegenerative Diseases** **Handbook of Research on Management and Organizational History** **Stem Cell Proliferation and Differentiation** **Exploring the Last Continent** **The Cnidaria, Past, Present and Future** **Grand Challenges in the Field of Earth Science** **Treating Complex Traumatic Stress Disorders in Adults, Second Edition** **Active Experiments in Space: Past, Present, and Future** **Tourism Planning and Development** **The Past and the Future of Human Immunity Under Viral Evolutionary Pressure** **Inflammatory Immune Disease: Molecular Mechanisms, Translational Approaches and Therapeutics** **2015 Minor League Baseball Analyst** **Playfair Cricket Annual 2015** **Archaeologies of the Heart** **Environment and Society in the Long Late Antiquity** **The Oxford Handbook of Publishing** **Principles of Virology** **Achieving Food Security in China** **Violence and Maltreatment in Intimate Relationships** **From Habitability to Life on Mars** **We, the Students and Teachers** **Artistic Practices and Archaeological Research** **UNEP Frontiers 2016 Report** **Climate Change and Agriculture in India: Impact and Adaptation** **Learning Under the Lens** **Terrestrial Mammal Conservation: Global Evidence for the Effects of Interventions for Terrestrial Mammals Excluding Bats and Primates** **Towards a Common Software/Hardware Methodology for Future Advanced Driver Assistance Systems** **Fractional Order Analysis** **Effects of Climate Change on Birds** **The Architecture of the Roman Triumph** **HIV-1 Genetic Diversity** **A Blue Carbon Primer** **Tropical Extremes** **Glaciers and Ice Sheets in the Climate System** **IB Mandarin Chinese B (Ab Initio) Grammar 2022 Edition** **Experimental Landscape Ecology** **Sea Ice** **Expatriates and Managing Global Mobility**

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UNEP Frontiers 2016 Report Oct 07 2020 The UNEP Frontiers report emphasises the critical relationship between a healthy environment and healthy people, and how human activities often undermine the long-term health and ability of ecosystems to support human well-being. The report provides encouraging examples on how certain issues may be addressed by innovating and rethinking policy interventions, new solutions or adapting existing practices. The UNEP Frontier series will continue to link new science to outcome-oriented policies, and by extension, keep the public informed of the health of the environment and its sustainability. **The Oxford Handbook of Publishing** May 14 2021 Publishing is one of the oldest and most influential businesses in the world. It remains an essential creative and knowledge industry, worth over \$140 billion a year, which continues to shape our education and culture. Two trends make this a particularly exciting time. The first is the revolution in communications technology that has transformed what it means to publish; far from resting on their laurels and retreating into tradition, publishers are doing as they always have - staying on the cutting edge. The second is the growing body of academic work that studies publishing in its many forms. Both mean that there has never been a more important time to examine this essential practice and the current state of knowledge. The Oxford Handbook of Publishing marks the coming of age of the scholarship in publishing studies with a comprehensive exploration of current research, featuring contributions from both industry professionals and internationally renowned scholars on subjects such as copyright, corporate social responsibility, globalizing markets, and changing technology. This authoritative volume looks at the relationship of the book publishing industry with other media, and how intellectual property underpins what publishers do. It outlines the complex and risky economics of the industry and examines how marketing, publicity, and sales have become ever more central aspects of business practice, while also exploring different sectors in depth and giving full treatment to the transformational and much discussed impact of digital publishing. This Handbook is essential reading for anyone interested in publishing, literature, and the business of media, entertainment, culture, communication, and information.

Sea Ice Jul 24 2019 Over the past 20 years the study of the frozen Arctic and Southern Oceans and sub-arctic seas has progressed at a remarkable pace. This third edition of Sea Ice gives insight into the very latest understanding of the how sea ice is formed, how we measure (and model) its extent, the biology that lives within and associated with sea ice and the effect of climate change on its distribution. How sea ice influences the oceanography of underlying waters and the influences that sea ice has on humans living in Arctic regions are also discussed. Featuring twelve new chapters, this edition follows two previous editions (2001 and 2010), and the need for this latest update exhibits just how rapidly the science of sea ice is developing. The 27 chapters are written by a team of more than 50 of the worlds' leading experts in their fields. These combine to make the book the most comprehensive introduction to the physics, chemistry, biology and geology of sea ice that there is. This third edition of Sea Ice will be a key resource for all policy makers, researchers and students who work with the frozen oceans and seas.

Playfair Cricket Annual 2015 Aug 17 2021 The cricket world's bestselling pocket annual. The indispensable guide to the season. The Playfair Cricket Annual 2015 includes coverage of the 2014 season, including the LV= County Championship, Royal London One-Day Cup and the NatWest T20 Blast. It also contains: a detailed register of all current first-class county players and umpires, including career bests in international Twenty20 matches; county records and 2014 first-class averages; current county players' first-class and List A limited-overs career records; Test match scores and averages; women's limited-overs and international Twenty20 records; 2015 fixtures, including 2nd XI and Minor Counties. New features this year include county players' squad numbers listed, as well as any IPL and Big Bash appearances, plus a new players' register for England's women internationals.

Grand Challenges in the Field of Earth Science Mar 24 2022 Frontiers in Earth Science is an open-access journal that aims to bring together and publish on a single platform the best research dedicated to our planet. This platform hosts all the rapidly growing and continuously expanding domains in Earth Science, involving the lithosphere (including geology, geophysics, geochemistry, and geography), the hydrosphere (including hydrology and cryospheric, marine and ocean sciences, complementing the existing Frontiers journal on Marine Science) and the atmosphere (including meteorology and climatology). As such, Frontiers in Earth Science focuses on the countless processes operating within and among the major spheres constituting our planet. In turn, the understanding of these processes provides the theoretical background to better use

the available resources and to face the major environmental challenges (including earthquakes, tsunamis, eruptions, floods, landslides, climate changes, sea level rise, extreme meteorological events): this is where interdependent processes meet, requiring a holistic view to better live on and with our planet. Within this volume are included the Grand Challenge papers for the Earth Science field, authored by the Field Chief Editor, and several of the 16 online specialty sections, authored by the respective Chief Editors. These articles identify and describe the crucial challenges for Earth Science at the dawn of the 21st century.

Towards a Common Software/Hardware Methodology for Future Advanced Driver Assistance Systems Jun 02 2020 The European research project DESERVE (DEvelopment platform for Safe and Efficient dRiVE, 2012-2015) had the aim of designing and developing a platform tool to cope with the continuously increasing complexity and the simultaneous need to reduce cost for future embedded Advanced Driver Assistance Systems (ADAS). For this purpose, the DESERVE platform profits from cross-domain software reuse, standardization of automotive software component interfaces, and easy but safety-compliant integration of heterogeneous modules. This enables the development of a new generation of ADAS applications, which challengingly combine different functions, sensors, actuators, hardware platforms, and Human Machine Interfaces (HMI). This book presents the different results of the DESERVE project concerning the ADAS development platform, test case functions, and validation and evaluation of different approaches. The reader is invited to substantiate the content of this book with the deliverables published during the DESERVE project. Technical topics discussed in this book include: Modern ADAS development platforms; Design space exploration; DRIVER MODELLING; Video-based and Radar-based ADAS functions; HMI for ADAS; Vehicle-hardware-in-the-loop validation systems

Exploring the Last Continent May 26 2022 This multi-disciplinary book will cater to students and those who want to have a more critical look behind the scenes of Antarctic science. This book will take a systems approach to providing insights into Antarctic ecosystems and the geophysical environment. Further, the book will link these insights to a discussion of current issues, such as climate change, bio prospecting, environmental management and Antarctic politics. It will be written and edited by experienced Antarctic researchers and scientists from a wide range of disciplines. Academic references will be included for those who wish to delve deeper into the topics discussed in the book.

Treating Complex Traumatic Stress Disorders in Adults, Second Edition Feb 20 2022 "This authoritative reference on complex traumatic stress disorders (CTSDs) and their assessment and treatment has now been significantly revised with more than 75% new material reflecting a decade of advances in the field. Leading experts delve into ways to understand, engage, assess, and treat adults with complex trauma histories, whose symptoms often include but may go well beyond those of posttraumatic stress disorder. The volume presents cutting-edge theory and research on CTSDs, considers diagnostic controversies, and identifies core elements of effective, culturally responsive treatment. Established and emerging therapies specifically tailored to this population are described and illustrated with vivid case examples. Other highlights are chapters on transtheoretical treatment, the crucial role of professionalism and training, and recognizing and managing vicarious traumatization. Subject areas/Key words: complex trauma, complex posttraumatic stress disorders, CPTSDs, developmental trauma disorder, interpersonal trauma, psychological trauma, child sexual abuse, childhood abuse, chronic maltreatment, disturbances of self-organization, dissociation, evidence-based treatments, assessments, diagnosis, psychotherapy, cognitive-behavioral therapy, CBT, developmental psychopathology, victimization, individual therapy, couple therapy, family therapy, borderline personality disorder, reactive attachment disorder, ICD-11-CM Audience: Clinicians and researchers in clinical psychology, psychiatry, social work, nursing, and counseling, and couple and family therapy"--

From Habitability to Life on Mars Jan 10 2021 From Habitability to Life on Mars explores the current state of knowledge and questions on the past habitability of Mars and the role that rapid environmental changes may have played in the ability of prebiotic chemistry to transition to life. It investigates the role that such changes may have played in the preservation of biosignatures in the geological record and what this means for exploration strategies. Throughout the book, the authors show how the investigation of terrestrial analogs to early Martian habitats under various climates and environmental extremes provide critical clues to understand where, what and how to search for biosignatures on Mars. The authors present an introduction to the newest developments and state-of-the-art remote and in situ detection strategies and technologies that are being currently developed to support the upcoming ExoMars and Mars 2020 missions. They show how the current orbital and ground exploration is guiding the selection for future landing sites. Finally, the book concludes by discussing the critical question of the implications and ethics of finding life on Mars. Edited by the lead on a NASA project that searches for habitability and life on Mars leading to the Mars 2020 mission Presents the evidence, questions and answers we have today (including a summary of the current state of knowledge in advance of the ESA ExoMars and NASA Mars 2020 missions) Includes contributions from authors directly involved in past, current and upcoming Mars missions Provides key information as to how Mars rovers, such as ExoMars and Mars 2020, will address the search for life on Mars with their instrumentation

Inflammatory Immune Disease: Molecular Mechanisms, Translational Approaches and Therapeutics Oct 19 2021

Active Experiments in Space: Past, Present, and Future Jan 22 2022

Quaternary of the Levant Sep 29 2022 Over eighty contributions from leading researchers review 2.5 million years of environmental change and human cultural evolution in the Levant.

Expatriates and Managing Global Mobility Jun 22 2019 Multinational enterprises continue to rely heavily upon expatriates as part of their global workforce. These expatriates, whose exact employment contract may take different forms, are assigned to help them develop global skills as well as to foster knowledge transfer. But managing this expatriate workforce is extremely complex, requiring a questioning of assumptions and sensitivity to new social and cultural dynamics. This book sets out to examine the problem of expatriate management through an I/O Psychology lens. Each chapter draws upon the expertise of scholars from around the world to provide insights into the latest research findings and remaining needs, pertaining to a wide variety of issues. The contributors of this book review the current state of the research of the issue at hand and then make recommendations for where the new frontiers of the research should be in the coming decades. This volume covers four sets of issues pertaining to expatriate management and global mobility in depth. First, the different decision points organizations must make about assigning someone to an overseas location for some period of time; second the different categories of employees in the multinational corporation and their unique characteristics and challenges; third, the various issues and implications of managing a globally mobile workforce; and fourth, the unique contexts of global mobility. Overarching future research themes are identified that lay out the research agenda for the coming decades. By bringing together key research, this book aims to help I/O psychologists understand, explore, and identify new ways of contributing to the understanding of the issues involved in managing an expatriate workforce. Incorporating state-of-the art I/O psychology research in this unique context bears the promise of yielding important new paradigms and practices.

Stem Cell Proliferation and Differentiation Jun 26 2022 Stem Cell Proliferation and Differentiation, Volume 138, the latest release in the Current Topics in Developmental Biology series, highlights new advances in the field, with this new volume presenting interesting chapters. Each chapter is written by an international board of authors. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Developmental Biology series Includes the latest information on stem cell proliferation and differentiation

2015 Minor League Baseball Analyst Sep 17 2021 The first book of its kind to fully integrate sabermetrics and scouting, the 2015 Minor League Baseball Analyst provides a distinctive brand of analysis for more than 1,000 minor league baseball players. Features include scouting reports for all players, batter skills ratings, pitch repertoires, performance trends, major league equivalents, and expected major league debuts. A complete sabermetric glossary is also included. This one-of-a-kind reference is ideally suited for baseball analysts and those who play in fantasy leagues with farm systems.

Effects of Climate Change on Birds Mar 31 2020 Climate change issues are attracting rapidly increasing interest from a wide range of biologists due to their unprecedented effects on global biodiversity, although there remains a lack of general knowledge as to the environmental consequences of such rapid change. Compared with any other class of animals, birds provide more long-term data and extensive time series, a more geographically and taxonomically diverse source of information, a richer source of data on a greater range of topics dealing with the effects of climate change, and a longer tradition of extensive research. The first

edition of the book was widely cited and this new edition continues to provide an exhaustive and up-to-date synthesis of our rapidly expanding level of knowledge as it relates to birds, highlighting new methods and areas for future research.

Violence and Maltreatment in Intimate Relationships Feb 08 2021 Violence and Maltreatment in Intimate Relationships describes the magnitude, risk factors, and consequences of intimate violence. The text offers a multidisciplinary focus that examines traditional areas of interpersonal violence as well as forms of intimate abuse outside the family. Addressing intimate relationship violence across the developmental lifespan, the Second Edition offers a mix of historical and contemporary perspectives, as well as personal stories and high-profile cases to provide readers with ample opportunity for application of the explanations, research, and data. The authors discuss the professional and social response to violence and maltreatment in intimate relationships (VMIR) to further the understanding of how to treat victims and how to prevent future intimate violence. FREE DIGITAL TOOLS INCLUDED WITH THIS TEXT SAGE Edge gives instructors the edge they need to succeed with an array of teaching tools in one easy-to-navigate website. Learn more:

edge.sagepub.com/millerperrinvm2e

HIV-1 Genetic Diversity Jan 28 2020

Glaciers and Ice Sheets in the Climate System Oct 26 2019 Our realisation of how profoundly glaciers and ice sheets respond to climate change and impact sea level and the environment has propelled their study to the forefront of Earth system science. Aspects of this multidisciplinary endeavour now constitute major areas of research. This book is named after the international summer school held annually in the beautiful alpine village of Karthaus, Northern Italy, and consists of twenty chapters based on lectures from the school. They cover theory, methods, and observations, and introduce readers to essential glaciological topics such as ice-flow dynamics, polar meteorology, mass balance, ice-core analysis, paleoclimatology, remote sensing and geophysical methods, glacial isostatic adjustment, modern and past glacial fluctuations, and ice sheet reconstruction. The chapters were written by thirty-four contributing authors who are leading international authorities in their fields. The book can be used as a graduate-level textbook for a university course, and as a valuable reference guide for practising glaciologists and climate scientists.

The Past and the Future of Human Immunity Under Viral Evolutionary Pressure Nov 19 2021 There is a long-standing evolutionary battle between viruses and their hosts that continues to be waged. The evidence of this conflict can be found on both sides, with the human immune system being responsive to new viral challenges and viruses having developed often sophisticated countermeasures. The “arms race” between viruses and hosts can be thought as an example of the “Red Queen” race, an evolutionary hypothesis inspired from the dialogue of Alice with the Red Queen in Lewis Carroll’s “Through the Looking-Glass”. At the same time, viruses have a minimal genomic content as they have evolved to hitchhike biological machinery of their hosts (or other co-infecting viruses). The minimalistic viral genome could be thought as the result of a “Black Queen” evolution, a theory inspired from the card game Heart, where the winner is the one with the fewest points at the end. The effects of this arms race are evident in the evolution of the human immune system. This system is capable of responding to diverse viral challenges, utilizing both the ancient innate immune system and the more recently evolved adaptive immune system of jawed vertebrates. It is now well-known that the two systems are linked, with innate immunity hypothesized to have provided raw material for the emergence of the adaptive immune response. The adaptive immune response comprises several protein families (including B and T cell receptors, MHC and KIR proteins, for example) that are encoded by complex and variable genomic regions. This complexity enables for responsive genetic changes to occur in immune cells, such as the ability of genomic hypervariable regions in B cells to recombine in order to produce more specific antibodies. Indeed, the human immune system is thought to be continually evolving via various mechanisms such as changes in the genes encoding immune receptors and the regulatory sequences that control their expression. For example, there is some evidence that exogenous viral infections can alter the expression of endogenous retroviruses, some of which contribute to the immune response. Viral countermeasures can include encoding decoy receptors for the signalling molecules of the immune response, altering the gene expression of adaptive immune cells during chronic infection or using host enzymes to facilitate viral immune escape. As the articles herein show, the immune system continues to be challenged by viral infections and these challenges continue to shape how the immune system combats pathogens, thus viruses and human immunity are continuously part of “Red and Black Queen” evolutionary dynamics. We had the pleasure of working with Jonas Blomberg as a reviewer during the course of the Research Topic and his untimely passing was a great loss. Prof. Blomberg made significant contributions, including to the nomenclature of endogenous retroviruses (ERVs), the evolution and characterization of specific human ERV (HERV) and the contribution of ERVs to diseases such as cancer. It is with great respect for his contributions to the ERV field that we dedicate this eBook to his memory.

Achieving Food Security in China Mar 12 2021 China’s food security has never failed to attract the public’s attention. Feeding China’s large population has always been a huge challenge. The latest large-scale famine took place in 1958–62 during which approximately 37 million people died of starvation. However, since the early 1980s, China’s food availability has improved drastically. The important question is then: has China achieved its food security? Although China’s food availability has significantly improved, it has not achieved a high level of food security due to the lack of progress in several other important dimensions of food security. The book examines China’s food security practices in the past six decades, explores the root causes that led to food shortages or abundances, and elaborates on the challenges that China has to deal with in order to improve its future food security. China’s quest for food security serves as a valuable lesson for many other countries to learn through China’s experiences and to better manage their food security in the future. The book also draws attention to the fact that China’s food security status has a huge impact on the global community and hence global collaboration is a mutually beneficial approach.

Environmental Factors in Neurodegenerative Diseases Aug 29 2022 Environmental Factors in Neurodegenerative Diseases, Volume One addresses contemporary advances in neurotoxicology, with thematic volumes providing authoritative review articles on key issues in the field. Updates in this new volume include chapters on Air pollution and neurodegenerative diseases, Mercury and Parkinson’s disease, Pesticides and PD: current evidence, Aluminum and neurodegeneration, Microglia and neurodegeneration, Dietary factors, Mitochondria in neurodegeneration, and Manganese and neurodegeneration. Edited by leading experts, volumes are designed as in-depth overviews of the latest topic developments that analyze the effect of varied chemical agents on the nervous system. It is an essential resource for researchers and graduate students alike. Includes, in one single publication, a selection of comprehensive reviews devoted to neurotoxicology Edited by high-profile, leading academics in the field, ensuring a quality publication for subscribers Aims to widen the scope for participation by international contributors, researchers and editorial board members outside North America Serves a broad audience of university faculty, researchers and students, as well as the industry, drug development companies and the government

Experimental Landscape Ecology Aug 24 2019 This book offers the first guide to landscape ecologists on the art and science of doing experiments, both observational and manipulative. How do you conduct an experiment when your study subject is as big as a landscape? Issues of scale, spatial heterogeneity and limitations on replication may challenge scientists seeking to carry out robust experiments in landscape ecology. Beginning with an overview of the history and philosophy of the scientific method, and tracing the development of experimental approaches in ecology broadly, the first half of the book discusses the broader issues of what makes a good experiment. Individual chapters describe unique aspects of landscape ecology that present challenges to experimentation, with suggestions for solutions on issues of scale, and how to apply controls, randomization and adequate replication in a landscape setting. The second half of the book describes different kinds of landscape ecology experimental approaches including large-scale manipulations experimental model landscapes mesocosms and microcosms in silico experiments novel landscapes Each chapter describes the advantages and disadvantages of each approach, and identifies the types of landscape ecology concepts and questions that a research can address. Examples from around the world, in a myriad of different environments, help to illustrate the ideas in each chapter. Together with an annotated resources section, this book

aims to stimulate ideas and inspire creativity for graduate students and early career researchers who want to conduct better experiments in landscape ecology.

IB Mandarin Chinese B (Ab Initio) Grammar 2022 Edition Sep 25 2019 IB Mandarin Chinese B (Ab Initio) is for beginners, for example, students whose first language is English but have a little experience in learning Chinese or have no experience. It is only available in Standard Level. By referring HSK 1-4 Grammar Version 2021 (286 Grammatical points, 3010 examples), and IB syllabus, we edited new version for IB Mandarin Chinese B (Ab Initio) Grammar 2022. By referring HSK (version 2009 and the latest version 2021), we edited a series of Chinese Grammar for those who are studying Chinese or preparing international examinations, such as IB, SAT, AP, IGCSE, GCSE Chinese. Combining our 26 years' experience in Teaching and editing our own materials, here is the "LIFE SAVING" book called by many students for their exams. The book give a quick revision for your coming exam! Thanks for your support for us creating better contents for you! It takes our years' painful effort to edit. Grab it!

Handbook of Research on Management and Organizational History Jul 28 2022 Emerging from what was a somewhat staid sub-discipline, there is currently a battle for the soul of Management and Organizational History (MOH), at the centre of which is a widespread concern that much recent work has been more about how one should or might do history rather than actually doing historical work. If ever there was a time for a new volume on MOH, this is certainly it.

Terrestrial Mammal Conservation: Global Evidence for the Effects of Interventions for Terrestrial Mammals Excluding Bats and Primates Jul 04 2020 Terrestrial Mammal Conservation provides a thorough summary of the available scientific evidence of what is known, or not known, about the effectiveness of all of the conservation actions for wild terrestrial mammals across the world (excluding bats and primates, which are covered in separate synopses). Actions are organized into categories based on the International Union for Conservation of Nature classifications of direct threats and conservation actions. Over the course of fifteen chapters, the authors consider interventions as wide ranging as creating uncultivated margins around fields, prescribed burning, setting hunting quotas and removing non-native mammals. This book is written in an accessible style and is designed to be an invaluable resource for anyone concerned with the practical conservation of terrestrial mammals. The authors consulted an international group of terrestrial mammal experts and conservationists to produce this synopsis. Funding was provided by the MAVA Foundation, Arcadia and National Geographic Big Cats Initiative. Terrestrial Mammal Conservation is the seventeenth publication in the Conservation Evidence Series, linked to the online resource www.ConservationEvidence.com. Conservation Evidence Synopses are designed to promote a more evidence-based approach to biodiversity conservation. Others in the series include Bat Conservation, Primate Conservation, Bird Conservation and Forest Conservation and more are in preparation. Expert assessment of the evidence summarised within synopses is provided online and within the annual publication What Works in Conservation.

Routledge International Handbook of Working-Class Studies Oct 31 2022 The Routledge International Handbook of Working-Class Studies is a timely volume that provides an overview of this interdisciplinary field that emerged in the 1990s in the context of deindustrialization, the rise of the service economy, and economic and cultural globalization. The Handbook brings together scholars, teachers, activists, and organizers from across three continents to focus on the study of working-class peoples, cultures, and politics in all their complexity and diversity. The Handbook maps the current state of the field and presents a visionary agenda for future research by mingling the voices and perspectives of founding and emerging scholars. In addition to a framing Introduction and Conclusion written by the co-editors, the volume is divided into six sections: Methods and principles of research in working-class studies; Class and education; Work and community; Working-class cultures; Representations; and Activism and collective action. Each of the six sections opens with an overview that synthesizes research in the area and briefly summarizes each of the chapters in the section. Throughout the volume, contributors from various disciplines explore the ways in which experiences and understandings of class have shifted rapidly as a result of economic and cultural globalization, social and political changes, and global financial crises of the past two decades. Written in a clear and accessible style, the Handbook is a comprehensive interdisciplinary anthology for this young but maturing field, foregrounding transnational and intersectional perspectives on working-class people and issues and focusing on teaching and activism in addition to scholarly research. It is a valuable resource for activists, as well as working-class studies researchers and teachers across the social sciences, arts, and humanities, and it can also be used as a textbook for advanced undergraduate or graduate courses.

Principles of Virology Apr 12 2021 Principles of Virology is the leading virology textbook because it does more than collect and present facts about individual viruses. Instead, it facilitates an understanding of basic virology by examining the shared processes and capabilities of viruses. Using a set of representative viruses to present the complexity and diversity of a myriad of viruses, this rational approach enables students to understand how reproduction is accomplished by known viruses and provides the tools for future encounters with new or understudied viruses. This fully updated edition represents the rapidly changing field of virology. A major new feature is the inclusion of 26 video interviews with leading scientists who have made significant contributions to the field of virology. Applicable courses: undergraduate courses in virology and microbiology as well as graduate courses in virology and infectious diseases.

The Cnidaria, Past, Present and Future Apr 24 2022 This volume presents a broad panorama of the current status of research of invertebrate animals considered belonging to the phylum Cnidaria, such as hydra, jellyfish, sea anemone, and coral. In this book the Cnidarians are traced from the Earth's primordial oceans, to their response to the warming and acidifying oceans. Due to the role of corals in the carbon and calcium cycles, various aspects of cnidarian calcification are discussed. The relation of the Cnidaria with Mankind is approached, in accordance with the Editors' philosophy of bridging the artificial schism between science, arts and Humanities. Cnidarians' encounters with humans result in a broad spectrum of medical emergencies that are reviewed. The final section of the volume is devoted to the role of Hydra and Medusa in mythology and art.

Learning Under the Lens Aug 05 2020 Learning Under the Lens: Applying Findings from the Science of Learning to the Classroom highlights the innovative approach being undertaken by researchers from the disparate fields of neuroscience, education and psychology working together to gain a better understanding of how we learn, and its potential to impact student learning outcomes. The book is structured in four parts: 'Science of learning: a policy perspective' sets the scene for this emerging field of research; 'Self regulation of learning' and 'Technology and learning' feature findings by eminent international and national researchers in the field and provides an insight into some of the innovative research illustrating the depth, breadth and multi-disciplinarity of the research; and 'Research translation' focuses on the scaled-up implementation of research findings in authentic learning settings, and showcases research findings which are having impact in learning environments. This fascinating book is intended as a reference tool to create awareness among researchers, policy makers, and education practitioners of the research being undertaken in the science of learning field and its potential to impact student learning outcomes.

Climate Change and Agriculture in India: Impact and Adaptation Sep 05 2020 This book provides the most recent understanding about climate change and its effects on agriculture in India. Further in-depth research is showcased regarding important allied sectors such as horticulture and fisheries, and examines the effect of climate change on different cereal crops. The individual chapters discuss the different mitigation strategies for climate change impacts and detail abiotic and biotic stresses in relation to climate change. The book provides an insight into environmentally safe and modern technologies approaches such as nanotechnology and utilization of underutilized crops under a changing climate. This book provides a solid foundation for the discussion of climate resilience in agricultural systems and the requirements to keep improving agricultural production. This book is an excellent resource for researchers, instructors, students in agriculture, horticulture and environmental science.

We, the Students and Teachers Dec 09 2020 Provides practical applications of democratic teaching for classes in history/social studies education, multicultural and social justice education, community service and civic engagement, and education and public policy. We, the Students and Teachers shows history and social studies educators how to make school classrooms into democratic spaces for teaching and learning. The book

offers practical strategies and lesson ideas for transforming democratic theory into instructional practice. It stresses the importance of students and teachers working together to create community and change. The book serves as an essential text for history and social studies teaching methods courses as well as professional development and inservice programs for history and social studies teachers at all grade levels. [The key to the excellent potential of this book is its assertion that democratic teaching can be linked to content, especially historical content, not just to a generic notion of "student-centered instruction." The theory-to-practice emphasis is very explicit, as is the emphasis on the voices of the teachers and students who participated in the research. The book also takes a highly creative approach to its topic that I find very refreshing.]

Elizabeth Washington, University of Florida [This is an important book. Maloy and LaRoche reveal the challenges that face historians as we grapple with increasingly fraught public and political perceptions of our discipline. Their strategies for reconstituting the classroom as a laboratory for instilling democratic values and practices are both ingenious and practical.] [Dane Morrison, author of *True Yankees: Sea Captains, the South Seas, and the Discovery of American Identity*

Artistic Practices and Archaeological Research Nov 07 2020 This volume - which has come about through a collaborative venture between Dragos Gheorghiu (archaeologist and professional visual artist) and Theodor Barth (anthropologist) - aims at expanding the field of archaeological research with an anthropological understanding of practices that include artistic methods.

Archaeologies of the Heart Jul 16 2021 Archaeological practice is currently shifting in response to feminist, indigenous, activist, community-based, and anarchic critiques of how archaeology is practiced and how science is used to interpret the past lives of people. Inspired by the calls for a different way of doing archaeology, this volume presents a case here for a heart-centered archaeological practice. Heart-centered practice emerged in care-based disciplines, such as nursing and various forms of therapy, as a way to recognize the importance of caring for those on whom we work, and as an avenue to explore how our interactions with others impacts our own emotions and heart. Archaeologists are disciplined to separate mind and heart, a division which harkens back to the origins of western thought. The dualism between the mental and the physical is fundamental to the concept that humans can objectively study the world without being immersed in it. Scientific approaches to understanding the world assume there is an objective world to be studied and that humans must remove themselves from that world in order to find the truth. An archaeology of the heart rejects this dualism; rather, we see mind, body, heart, and spirit as inextricable. An archaeology of the heart provides a new space for thinking through an integrated, responsible, and grounded archaeology, where there is care for the living and the dead, acknowledges the need to build responsible relationships with communities, and with the archaeological record, and emphasize the role of rigor in how work and research is conducted. The contributions bring together archaeological practitioners from across the globe in different contexts to explore how heart-centered practice can impact archaeological theory, methodology, and research throughout the discipline.

Fractional Order Analysis May 02 2020 A guide to the new research in the field of fractional order analysis Fractional Order Analysis contains the most recent research findings in fractional order analysis and its applications. The authors—noted experts on the topic—offer an examination of the theory, methods, applications, and the modern tools and techniques in the field of fractional order analysis. The information, tools, and applications presented can help develop mathematical methods and models with better accuracy. Comprehensive in scope, the book covers a range of topics including: new fractional operators, fractional derivatives, fractional differential equations, inequalities for different fractional derivatives and fractional integrals, fractional modeling related to transmission of Malaria, and dynamics of Zika virus with various fractional derivatives, and more. Designed to be an accessible text, several useful, relevant and connected topics can be found in one place, which is crucial for an understanding of the research problems of an applied nature. This book: Contains recent development in fractional calculus Offers a balance of theory, methods, and applications Puts the focus on fractional analysis and its interdisciplinary applications, such as fractional models for biological models Helps make research more relevant to real-life applications Written for researchers, professionals and practitioners, Fractional Order Analysis offers a comprehensive resource to fractional analysis and its many applications as well as information on the newest research.

The Architecture of the Roman Triumph Feb 29 2020 This book offers the first critical study of the architecture of the Roman triumph, ancient Rome's most important victory ritual. Through case studies ranging from the republican to imperial periods, it demonstrates how powerfully monuments shaped how Romans performed, experienced, and remembered triumphs and, consequently, how Romans conceived of an urban identity for their city. Monuments highlighted Roman conquests of foreign peoples, enabled Romans to envision future triumphs, made triumphs more memorable through emotional arousal of spectators, and even generated distorted memories of triumphs that might never have occurred. This book illustrates the far-reaching impact of the architecture of the triumph on how Romans thought about this ritual and, ultimately, their own place within the Mediterranean world. In doing so, it offers a new model for historicizing the interrelations between monuments, individual and shared memory, and collective identities.

Environment and Society in the Long Late Antiquity Jun 14 2021 *Environment and Society in the Long Late Antiquity* brings together scientific, archaeological and historical evidence on the interplay of social change and environmental phenomena at the end of Antiquity and the dawn of the Middle Ages, ca. 300-800 AD.

Tropical Extremes Nov 27 2019 *Tropical Extremes: Natural Variability and Trends* features the most up-to-date information on present and future trends related to climate change and tropical extremes. Including contributions from the foremost experts in the field, this important reference addresses the science behind climate change and natural variability in relation to tropical extremes. The book also includes practical insight into modeling and observation approaches. In a warming world, the increase of weather extremes presents a scientifically complex and societally relevant challenge. The book confronts these challenges with observational evidence, modeling studies and expected impacts. This is an essential reference for researchers, modelers and students in the fields of climate and atmospheric science looking to better understand the causes and effects of tropical extremes and natural variability. Illuminates the role of natural variability and climate change in determining the fate and state of tropical extremes Offers a robust guide for analysis relating to the impacts of extremes, thus providing a potential roadmap for navigating the future of risk analysis and the water-food-energy nexus Edited by a diverse team of global experts Includes contributions from leading researchers in the field, comprising the most up-to-date understanding of tropical extremes

A Blue Carbon Primer Dec 29 2019 Key features: Captures the historic context and recent developments in science and policy arenas that address the potential for coastal wetlands to be considered as significant contributors to carbon sequestration Links multiple levels of science (biogeochemistry, geomorphology, paleoclimate, etc.) with blue carbon concepts (science, policy, mapping, operationalization, economics) in a single compendium Concludes with a discussion of future directions which covers integrated scientific approaches, impending threats and specific gaps in current knowledge Includes 7 case studies from across the globe that demonstrate the benefits and challenges of blue carbon accounting Written by over 100 leading global blue carbon experts in science and policy. Blue Carbon has emerged as a term that represents the distinctive carbon stocks and fluxes into or out of coastal wetlands such as marshes, mangroves, and seagrasses. The Blue Carbon concept has rapidly developed in science literature and is highly relevant politically, as nations and markets are developing blue carbon monitoring and management tools and policies. This book is a comprehensive and current compendium of the state of the science, the state of maps and mapping protocols, and the state of policy incentives (including economic valuation of blue carbon), with additional sections on operationalizing blue carbon projects and 7 case studies with global relevance.

Tourism Planning and Development Dec 21 2021 Academically complex and challenging to apply, development and planning are increasingly relevant to the growing tourism industry. This collection contains critical studies on tourism development and planning, and calls for proactive, holistic and responsible thinking. It addresses conceptual and contemporary issues in development and planning research including political trust, innovation networks, sustainability, moral encounters, enclavisation and evolutionary economics. It argues that recognition of the contextual and historical dimensions around tourism development and planning is essential to help both researchers and practitioners better understand destination and place-based decision-making. In addition, it will lead to improvements in stakeholder relations, and explains how tourism best

works with localities and localities with tourism. This book was originally published as a special issue of Tourism Geographies.