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Life Sciences Pnovember 2014 Limpopo

Xolisa Tshongolo



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Narrating the Everyday: Windows on Life in Central South Africa Asta Rau, Magdalena Wojciechowska, Jan K. Coetzee, 2019-01-01 The chapters in this book reflect on the practice of using narratives to understand individual and social reality They all reveal dimensions of the same concrete reality contemporary society of Central South Africa Except for two all the chapters originated from research in the program The Narrative Study of Lives situated in the Department of Sociology at the University of the Free State in Bloemfontein South Africa Each chapter opens a window on an aspect of everyday life in Central South Africa Each window displays the capacity of the narrative as a methodological tool in qualitative research to open up better understandings of everyday experience The chapters also reflect on the epistemological journey towards unwrapping and breaking open of meaning Narratives are one of many tools available to sociologists in their quest to understand and interpret meaning But when it comes to deep understanding narratives are particularly effective in opening up more intricate levels of meaning associated with emotions feelings and subjective experiences

Evolution Education Around the Globe Hasan Deniz, Lisa A. Borgerding, 2018-06-21 This edited book provides a global view on evolution education It describes the state of evolution education in different countries that are representative of geographical regions around the globe such as Eastern Europe Western Europe North Africa South Africa North America South America Middle East Far East South East Asia Australia and New Zealand Studies in evolution education literature can be divided into three main categories a understanding the interrelationships among cognitive affective epistemological and religious factors that are related to peoples views about evolution b designing implementing evaluating evolution education curriculum that reflects contemporary evolution understanding and c reducing antievolutionary attitudes This volume systematically summarizes the evolution education literature across these three categories for each country or geographical region The individual chapters thus include common elements that facilitate a cross cultural meta analysis Written for a primarily academic audience this book provides a much needed common background for future evolution education research across the globe

[Amazing Feats of Environmental Engineering](#) Carol Hand, 2014-08-01 Engineers design our modern world They combine science and technology to create incredible vehicles structures and objects This title examines amazing feats of environmental engineering Engaging text explores projects that supply water to impoverished areas structures in the Netherlands that hold back the Atlantic Ocean and the cleanup of contaminated areas It also examines the engineers who made these projects a reality and traces the history of the discipline Relevant sidebars stunning photos and a glossary aid readers understanding of the topic A hands on project and career planning chart give readers a sense of what it takes to become an engineer Additional features include a table of contents a selected bibliography source notes and an index plus essential facts about each featured feat of engineering Aligned to Common Core standards and correlated to state standards Essential Library is an imprint of Abdo Publishing a division of

ABDO The SAGE Encyclopedia of Cancer and Society Graham A. Colditz,2015-08-12 The first edition of the Encyclopedia of Cancer and Society was published in 2007 and received a 2008 Editors Choice Award from Booklist It served as a general non technical resource focusing on cancer from the perspective of the social and behavioral sciences exploring social and economic impacts the business of cancer advertising of drugs and treatment centers how behavior change could offer great potential for cancer prevention environmental risks food additives and regulation the relation between race and ethnicity and cancer risk socioeconomic status controversies both scientific and political in cancer treatment and research country by country entries on cancer around the world and more Given various developments in the field including new drug treatments political controversies over use of the vaccines Gardasil and Cervarix with young girls to prevent cervical cancer and unexpected upticks in the prevalence of adult smoking within the U S following decades of decline the SAGE Encyclopedia of Cancer and Society Second Edition serves as an updated and more current encyclopedia that addresses concerns pertaining to this topic Key Features Approximately half of the 700 first edition articles revised and updated 30 new entries covering new developments since 2006 Signed entries with cross references Further Readings accompanied by pedagogical elements New Reader s Guide Updated Chronology Resource Guide Glossary and through new Index The SAGE Encyclopedia of Cancer and Society Second Edition serves as a reliable and precise source for students and researchers with an interest in social and behavioral sciences and seeks to better understand the continuously evolving subject matter of cancer and society

The Statesman's Yearbook 2024 Palgrave Macmillan,2024-01-03 Now in its 160th edition The Statesman s Yearbook continues to be the reference work of choice for accurate and reliable information on every country in the world Covering political economic social and cultural aspects the Yearbook is also available online for subscribing institutions **Birthing**
Techno-Sapiens Robbie Davis-Floyd,2021-03-31 This ground breaking book challenges us to re think ourselves as techno sapiens a new species we are creating as we continually co evolve ourselves with our technologies While some of its chapters are imaginary they are all empirically grounded in ethnography and richly theorized from diverse disciplines The authors go far beyond a techno optimism vs techno pessimism stance stretching our thinking about birthing techno sapiens to consider not only how our cyborgian reproductive lives are constrained and or enabled by technology but are also about emotions and spirit The world of reproductive health care and particularly that of genetic engineering is developing exponentially and current challenges are vastly different from those of a decade ago The book is provocative intended to generate debate ideas and future research and to influence ethical policy and practice in human techno reproduction It will be of interest across the social sciences and humanities for reproductive scholars bioethicists techno scientists and those involved in the development and delivery of maternity services *The Origin and Growth of Geography as a discipline at South Africa Universities*

Gustav Visser,Ronnie Donaldson,Cecil Seethal,2016-09-20 **Science Cultures in a Diverse World: Knowing, Sharing, Caring** Bernard Schiele,Xuan Liu,Martin W. Bauer,2021-09-13 Science and technology culture is now more than ever at the

very heart of the social project and all countries to varying degrees participate in it raising scientific literacy improving the image of the sciences involving the public in debates and encouraging the young to pursue careers in the sciences Thus the very destiny of any society is now entwined with its ability to develop a genuine science and technology culture accessible for participation not only to the few who by virtue of their training or trade work in the science and technology fields but to all thereby creating occasions for society to debate and to foster a positive dialogue about the directions of change and future choices This book organized on the theme of knowing sharing caring new insights for a diverse world which was derived from the observation that globalization rests upon diversity diversity of contexts publics research strategies and new innovating practices and aims to stimulate exchanges discussions and debates to initiate a reflection conducive to decentring and to be an opportunity for enrichment by providing the reader with means to achieve the potentialities of that diversity through a comparison of the visions that underpin the attitudes of social actors the challenges they perceive and the potential solutions they consider Thus this book aims first and foremost to raise questions in such a manner that readers so stimulated will feel compelled to contribute and will do so In this spirit however significant the results presented and shared are less important than the questions they seek to answer How are we to rethink the diffusion the propagation and the sharing of scientific thought and knowledge in an ever more complex and diverse world What to know What to share How do we do it when science is broken down across the whole spectrum of the world s diversity The book is recommended for those who are interested in science communication and science cultures in the new media era in contemporary social dynamics and in the evolution of the role of the state and of institutions It is also an excellent reference for researchers engaging in science communication public understanding of science cultural studies science and technology museum science society relationship and other fields of humanities and social sciences

Spatial Approaches in African Archaeology Cameron Gokee, Carla Klehm, 2023-01-01 This book explores the interplay between African archaeology and geospatial methods from three broad perspectives First several contributors examine the technical possibilities and limits of using satellite imagery to detect archaeological sites and model their physical environs A second perspective is the integration of new geospatial data and methods into site and landscape scale analyses to better address questions about social organization and subjective experience in African pasts A final perspective considers the interplay between geospatial technologies and community archaeology in Africa Recognizing that GIS and RS supersede traditional divisions in African archaeology such as different periods geographic regions and theoretical orientations the chapters aim to be widely applicable Arranged by methodological emphasis the case studies move from technical discussions of specific geospatial tools to general applications for addressing specific sociohistorical topics Each chapter clearly explains the links between their archaeological questions and analytical methods as well as how their results advance our understanding of African pasts and heritage resources Many of the chapters can serve as learning models for archaeologists who are new to GIS or curious about its applications to their work

Others represent recent advances in geospatial applications of greater interest to more seasoned GIS practitioners demonstrating the potential for African scholarship to contribute to methodological innovations This book is of interest to students and researchers of African and historical archaeology and anthropology Previously published in African Archaeological Review Volume 37 issue 1 March 2020 Sustainability Rao Y. Surampalli, Tian C. Zhang, Manish Kumar Goyal, Satinder K. Brar, R. D. Tyagi, 2020-06-08 A comprehensive resource to sustainability and its application to the environmental industrial agricultural and food security sectors Sustainability fills a gap in the literature in order to provide an important guide to the fundamental knowledge and practical applications of sustainability in a wide variety of areas The authors noted experts who represent a number of sustainability fields bring together in one comprehensive volume the broad range of topics including basic concepts impact assessment environmental and the socio economic aspects of sustainability In addition the book covers applications of sustainability in environmental industrial agricultural and food security as well as carbon cycle and infrastructural aspects Sustainability addresses the challenges the global community is facing due to population growth depletion of non renewable resources of energy environmental degradation poverty excessive generation of wastes and more Throughout the book the authors discuss the economics ecological social technological and systems perspectives of sustainability This important resource Explores the fundamentals as well as the key concepts of sustainability Covers basic concepts impact assessment environmental and socio economic aspects applications of sustainability in environmental industrial agricultural and food security carbon cycle and infrastructural aspects Argues the essentiality of sustainability in ensuring the propitious future of earth systems and Authored by experts from a range of various fields related to sustainability Written for researchers and scientists students and academics Sustainability Fundamentals and Applications is a comprehensive book that covers the basic knowledge of the topic combined with practical applications

Fashioning Inland Communities Yaari Felber-Seligman, 2025 When viewed from the economic centers of the Indian or Atlantic Oceans the Ruvuma region of East Africa crossing what is now Tanzania Malawi and Mozambique would look like a periphery But the same factors that marginalize the region historically brought distinct opportunities In Fashioning Inland Communities Yaari Felber Seligman traces the long history from the first millennium CE into the twentieth century of Ruvuma trade practices within a changing world Felber Seligman argues that Ruvuma trade should be understood fundamentally as a set of voluntary choices undertaken and revised to further communities aspirations Ruvuma used fashion to build varied communities from local to pan regional reflecting the dynamic relationships among inland groups Examples of Ruvuma popular fashions reveal processes of meaning making and community building that call for us to expand our attention to the ways in which East African peoples interacted alongside as well as beyond trade networks that sourced prestige and commercial goods Popular culture here emerges as a heterarchical force that shaped lasting multidirectional connections across and between Ruvuma and their neighbors As both a subject and a strategy for analysis the history of

popular fashion shifts how we view histories of small decentralized societies as they encounter larger economies Felber Seligman demonstrates that this has implications for our understanding not only of trade but of material culture community gender and family

Economic Geography Neil M. Coe, Philip F. Kelly, Henry W. C. Yeung, 2019-12-31 A revised and updated edition of the leading introductory text on the geography of economic life from the local to the global Economic Geography is an engaging and accessible introduction to the different ways modern economic geographers understand analyze and interpret economic processes This comprehensive text addresses significant questions relevant to contemporary economic life from the activities of transnational corporations to issues surrounding workplaces and consumption It encourages readers to explore how spatial patterns places networks and territories shape large scale economic processes Accessible highly illustrated material presents fresh insights from the field complemented by relatable real world examples that help students understand the social cultural and political contexts underpinning global economic processes Now in its third edition this extensively revised and updated textbook retains the features and thematic structure that have proved popular with students and instructors alike while adding exciting new content New chapters explore how the global economy and global development are institutionalized and governed the economic geographies of global climate change economic practices outside the capitalist mainstream the role of migrants in labour markets global production networks and more Introduces economic geography with a thematic approach including major concepts current debates and case studies Revised and updated to enhance international coverage including three entirely new chapters on international development alternative economies and global climate change Substantial new content on labour migration global production networks and recent intellectual trends such as evolutionary economic geography Highly illustrated with diagrams and photographs closely integrated into the text Pedagogical aids including key case studies learning objectives text boxes chapter essay questions summaries and further reading Core geographical concepts such as place networks and territory are closely integrated into all chapters Economic Geography A Contemporary Introduction is an invaluable source of up to date knowledge for students new to the field for those requiring a solid foundation as well as for a broader academic and public readership with interest in this area of study

Systems Analysis Approach for Complex Global Challenges Priscilla Mensah, David Katerere, Sepo Hachigonta, Andreas Roodt, 2018-04-09 This book which contains a collection of review articles as well as focus on evidence based policy making will serve as a valuable resource not just for all postgraduate students conducting research using systems analysis thinking but also for policy makers To our knowledge a book of this nature which also has a strong African focus is currently not available The book examines environmental and socio economic risks with the aim of providing an analytical foundation for the management and governance of natural resources disasters addressing climate change and easing the technological and ecological transitions to sustainability It provides scientific and strategic analysis to better understand the dynamics of future energy transitions their main driving forces enabling factors barriers as

well as their consequences for the social economic and environmental dimensions of human wellbeing Science based policy advice is achieved through an integrated assessment and modeling of how to simultaneously address the major energy policy challenges in the areas of environment climate change and air pollution energy poverty or access to affordable and clean energy for the poor energy security and reliability It also aims to improve our understanding of ecosystems and their management in today s changing world in particular the current state of ecosystems and their ecological thresholds and buffering capacities It provides support for policy makers in developing rational realistic and science based regional national and global strategies for the production of fuel food and fibre that sustain ecosystem services and safeguard food security Finally it addresses the human development dimension of global change based on comprehensive studies on the changing size and composition of human populations around the world by analyzing both their impacts and the differential vulnerabilities by age gender and level of education

Working with indigenous knowledge Fhumulani M.

Mulaudzi, Rachel T. Lebesse, 2022 The aim of the book is to assist both local and international scholars in articulating the scholarly discourse on indigenous health attitudes practices and experiences The indigenous lens that was used to generate and disseminate indigenous knowledge in this book will strengthen indigenous scholarship thus making it accessible to a wider audience In addition the information shared in this book will add value for scholars and assist them with the indigenous knowledge needed to address sustainable development goals This book is timeous and topical as the discourse on the decolonisation of the curriculum is widely debated in the higher education space The discourse on the scholarship of indigenous knowledge as the tacit local knowledge that stems from cultural practices within communities has not been well articulated in the current health science education milieu Indigenous knowledge has remained overlooked and undermined for a very long time and the information remains untapped in local communities The scholars who conducted the research on which this book is based unearthed a wealth of knowledge which was tacit in nature and translated it into implicit knowledge that can be documented and shared with other scholars globally This knowledge will assist health care scholars in benefiting from knowledge practices and cultural beliefs that will assist them in health care planning teaching evidence based practice and further research

The Green State in Africa Carl Death, 2016-01-01 A provocative reassessment of the relationship between states and environmental politics in Africa From climate related risks such as crop failure and famine to longer term concerns about sustainable urbanization environmental justice and biodiversity conservation African states face a range of environmental issues As Carl Death demonstrates the ways in which they are addressing them have important political ramifications and challenge current understandings of green politics Death draws on almost a decade of research to reveal how central African environmental politics are to the transformation of African states

Intra- and inter-species interactions in microbial communities Luis Raul Comolli, Birgit Luef, Manfred Auer, 2015-03-03 Recent developments in various OMICs fields have revolutionized our understanding of the vast diversity and ubiquity of microbes in the biosphere However most of

the current paradigms of microbial cell biology and our view of how microbes live and what they are capable of are derived from in vitro experiments on isolated strains Even the co culturing of mixed species to interrogate community behavior is relatively new But the majority of microorganisms lives in complex communities in natural environments under varying conditions and often cannot be cultivated Unless we obtain a detailed understanding of the near native 3D ultrastructure of individual community members the 3D spatial community organization their metabolic interdependences coordinated gene expression and the spatial organization of their macromolecular machines inventories as well as their communication strategies we won t be able to truly understand microbial community life How spatial and also temporal organization in cell cell interactions are achieved remains largely elusive For example a key question in microbial ecology is what mechanisms microbes employ to respond when faced with prey competitors or predators and changes in external factors Specifically to what degree do bacterial cells in biofilms act individually or with coordinated responses What are the spatial extent and coherence of coordinated responses In addition networks linking organisms across a dynamic range of physical constraints and connections should provide the basis for linked evolutionary changes under pressure from a changing environment Therefore we need to investigate microbial responses to altered or adverse environmental conditions including phages predators and competitors and their macromolecular metabolic responses according to their spatial organization We envision a diverse set of tools including optical spectroscopical chemical and ultrastructural imaging techniques that will be utilized to address questions regarding e g intra and inter organism interactions linked to ultrastructure and correlated adaptive responses in gene expression physiological and metabolic states as a consequence of the alterations of their environment Clearly strategies for co evolution and in general the display of adaptive strategies of a microbial network as a response to the altered environment are of high interest While a special focus will be placed on terrestrial sole species or mixed biofilms we are also interested in aquatic systems biofilms in general and microbes living in symbiosis In this Research Topic we wish to summarize and review results investigating interactions and possibly networks between microbes of the same or different species their co occurrence as well as spatiotemporal patterns of distribution Our goal is to include a broad spectrum of experimental and theoretical contributions from research and review articles to hypothesis and theory aiming at understanding microbial interactions at a systems level

Handbook of Research on Protecting and Managing Global Indigenous Knowledge Systems Tshifhumulo, Rendani, Makhnikhe, Tshimangadzo Justice, 2021-10-08 Indigenous knowledge systems IKS are a combination of knowledge systems encompassing technology social economic and philosophical learning or educational legal and governance systems The lack of documentation of these systems presents a problem as the knowledge is fading away over time In response it is essential that policies and strategies are undertaken to ensure that these systems are protected and sustained for generations to come The Handbook of Research on Protecting and Managing Global Indigenous Knowledge Systems is a comprehensive reference source that works to preserve indigenous knowledge systems

through research Focusing on key concepts such as tools of indigenous knowledge management and African indigenous symbols the book preserves and promotes indigenous knowledge through research and fills the void staff and students within the field of indigenous knowledge systems face with the current lack of research and resources This book is ideal for university students lecturers researchers academicians policymakers historians sociologists and anyone interested in the field of indigenous knowledge systems

Critical Mineral Resources of the United States K. J. Schulz, John H. DeYoung, Robert R. Seal, Dwight C. Bradley, 2017 As the importance and dependence of specific mineral commodities increase so does concern about their supply The United States is currently 100 percent reliant on foreign sources for 20 mineral commodities and imports the majority of its supply of more than 50 mineral commodities Mineral commodities that have important uses and face potential supply disruption are critical to American economic and national security However a mineral commodity's importance and the nature of its supply chain can change with time a mineral commodity that may not have been considered critical 25 years ago may be critical today and one considered critical today may not be so in the future The U S Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security For each mineral commodity covered the authors provide a comprehensive look at 1 the commodity's use 2 the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity 3 the current status of production reserves and resources in the United States and globally and 4 environmental considerations related to the commodity's production from different types of mineral deposits The volume describes U S critical mineral resources in a global context for no country can be self sufficient for all its mineral commodity needs and the United States will always rely on global mineral commodity supply chains This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities

African Languages in Classrooms and Academia: Intellectualisation and Empowerment through Formal Education Xolisa Tshongolo, 2024-12-02 To date there have been few comprehensive books published which deal specifically with the role of African languages in academia and formal education Motinyane Mletshe and Tshongolo as editors have produced a book that fills this gap In this timely collection of 21 chapters written in African languages and English the contributors offer a critique of both language practice in the classroom as well as language planning policy creation and implementation challenges A timely and innovative contribution in the area of language in education teaching pedagogy as well as multilingualism

The Decolonization of Knowledge Jonathan D. Jansen, Cyril A. Walters, 2022-06-30 In 2015 students at the University of Cape Town used the slogan RhodesMustFall to demand that a monument of Cecil John Rhodes the empire builder of British South Africa be removed from the university campus Soon students at Oxford University called for the removal of a statue of Rhodes from Oriel College The radical idea of decolonization at the forefront of these student protests continues to be a key

element in South African educational institutions as well as those in Europe and North America This book explores the uptake of decolonization in the institutional curriculum given the political demands for decolonization on South African campuses and the generally positive reception of the idea by university leaders Based on interviews with more than two hundred academic teachers at ten universities this is an innovative account of how institutions have engaged with subverted and transformed the decolonization movement since RhodesMustFall

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