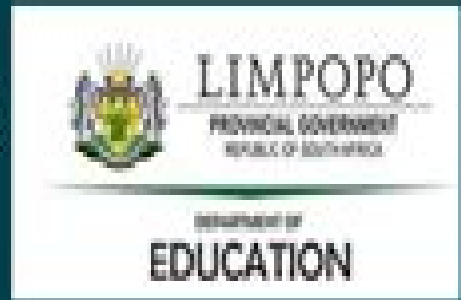
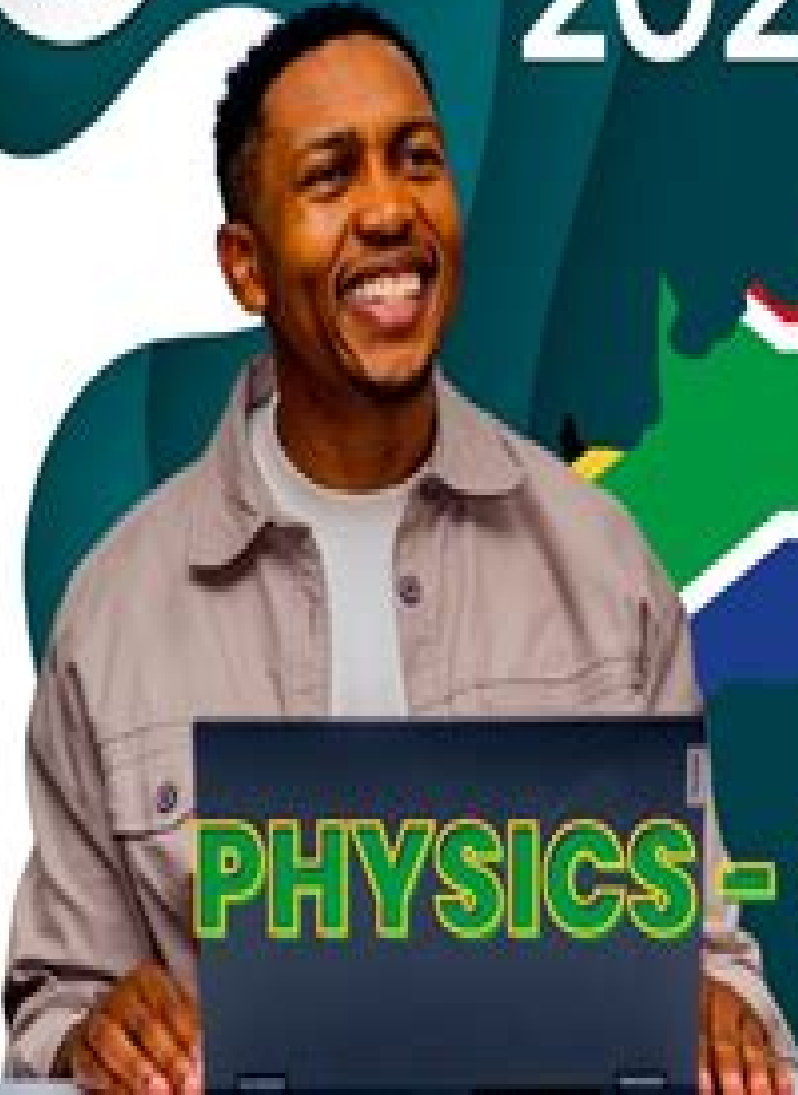




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Small reservoirs in Africa: a review and synthesis to strengthen future investment Saruchera, D.,Lautze, Jonathan,2019-11-04 **Quaternary Environmental Change in Southern Africa** Jasper Knight,Stefan W. Grab,2016-06-23

Ongoing climate change necessitates advances in our understanding of the interrelationships between climate landscape shaping processes and human activity over long time periods especially in areas that are already climatically stressed This volume presents new ideas on macroscale landscape evolution mountain fluvial and aeolian processes and environments in southern Africa a key region in the story of human evolution during the last two million years Interdisciplinary in scope it brings together an international team of experts to synthesise the latest research and understanding of landscape human relationships in this region It incorporates results from the emerging fields of geoarchaeology and cultural landscapes and utilises the latest data and analytical techniques A key reference for researchers studying hominid evolution geoarchaeology and environmental change it provides a benchmark study of southern African landscape evolution during the Quaternary It will also appeal to professionals and policymakers with interests in future human landscape evolution in southern Africa **Arsenic Remediation of Food and Water** Bhaskar Sen Gupta,Nadia Martínez-Villegas,2024-08-23

The book provides information on the sources of arsenic contamination of groundwater and their impacts in the first part of the book consisting of 8 chapters Process developments such as nano adsorbents for removal of arsenic and other heavy metals are discussed in the second part of the book that comprises of 4 chapters The third part of the book includes 4 chapters on technological interventions for the removal of arsenic such as indigenous ceramic membranes and Subterranean Arsenic Removal SAR The fourth part of the book deals with arsenic contamination in food materials and food chain systems and consists of 5 chapters Arsenic has long been associated with a variety of health complications in the human body In order to address this a chapter on arsenic contamination and impacts on human health has been included in the fifth part of the book The book would be a valuable reference material for the scientific community in developing countries working on community water supply and treatment food safety public health and policy **The Archaeology of Southern Africa** Peter Mitchell,2024-06-06

This revised and updated edition provides a comprehensive synthesis of Southern Africa s archaeology over more than 3 million years Nitrogen Overload Brian G. Katz,2020-06-16

Finalist for the 2021 PROSE Award for Environmental Science An integrated approach to understanding and mitigating the problem of excess nitrogen Human activities generate large amounts of excess nitrogen which has dramatically altered the nitrogen cycle Reactive forms of nitrogen especially nitrate and ammonia are particularly detrimental Given the magnitude of the problem there is an urgent need for information on reactive nitrogen and its effective management Nitrogen Overload Environmental Degradation Ramifications and Economic Costs presents an integrated multidisciplinary review of alterations to the nitrogen cycle over the past century and the wide ranging consequences of nitrogen based pollution especially to

aquatic ecosystems and human health Volume highlights include Comprehensive background information on the nitrogen cycle Detailed description of anthropogenic nitrogen sources Review of the environmental economic and health impacts of nitrogen pollution Recommendations and strategies for reducing humanity s nitrogen footprint Discussion of national nitrogen footprints and worldwide examples of mitigation policies The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Read the Editors Vox <https://eos.org/editors-vox> exploring the widespread impacts of ongoing nitrogen pollution

The Geography of South Africa Jasper Knight,Christian M. Rogerson,2018-10-03 This edited collection examines contemporary directions in geographical research on South Africa It encompasses a cross section of selected themes of critical importance not only to the discipline of Geography in South Africa but also of relevance to other areas of the Global South All chapters are original contributions providing a state of the art research baseline on key themes in physical human and environmental geography and in understanding the changing geographical landscapes of modern South Africa These contributions set the scene for an understanding of the relationships between modern South Africa and the wider contemporary world including issues of sustainable development and growth in the Global South

Ancient Supercontinents and the Paleogeography of Earth Lauri J. J Pesonen,Johanna Salminen,Sten-Ake Elming,David A.D. A.D. Evans,Toni Veikkolainen,2021-10-06 Ancient Supercontinents and the Paleogeography of Earth offers a systematic examination of Precambrian cratons and supercontinents Through detailed maps of drift histories and paleogeography of each continent this book examines topics related to Earth s tectonic evolution prior to Pangea including plate kinematics orogenic development and paleoenvironments Additionally this book discusses the methodologies used principally paleomagnetism and tectonostratigraphy and addresses geophysical topics of mantle dynamics and geodynamo evolution over billions of years Structured clearly with consistent coverage for Precambrian cratons this book combines state of the art paleomagnetic and geochronologic data to reconstruct the paleogeography of the Earth in the context of major climatic events such as global glaciations It is an ideal up to date reference for geoscientists and geographers looking for answers to questions surrounding the tectonic evolution of Earth Provides robust paleogeographies of Precambrian cratons based on high quality paleomagnetic and geochronologic data and critically tested by global geological datasets Includes links to updated databases for the Precambrian such as PALEOMAGIA and the Global Paleomagnetic Database GPMDB Presents full color maps of the drift histories of each continent as well as their paleogeographies Discusses key questions regarding continental drift the supercontinent cycle and the geomagnetic dipole hypothesis and analyzes palaeogeography in the context of Earth s holistic evolution

Water Law Joseph W. Dellapenna,Joyeeta Gupta,2021-08-31 This volume of the Elgar Encyclopedia of Environmental Law provides thorough and detailed coverage of the changing meanings and roles of water law from the local to the global It examines the rules of ownership rights of use and dispute resolution that address access

allocation and protection of water resources Written by leading scholars and practitioners from across the globe this authoritative volume will be a vital resource for all scholars and students of environmental law Spatial Modelling and Failure Analysis of Natural and Engineering Disasters through Data-based Methods Faming Huang,Jinsong Huang,Wei Chen,Jinquan Liu,2022-10-07 **Monitoring and Managing Multi-hazards** Jayanta Das,Sudip Kumar

Bhattacharya,2022-12-02 To monitor multi hazards Remote Sensing and GIS based multi criteria decision making MCDM techniques have been extensively used in recent years worldwide Since natural hazards cannot be eliminated only quantification of these events and reliable forecasting can alleviate their detrimental effects through which we can build more resilient and safe societies Moreover cultivating the proper knowledge of the multi hazards and their monitoring and management can fill the gap between science policy and the community concerned In an endeavor to understand and characterize the various hazards Monitoring and Managing Multi hazards A Multidisciplinary approach presents a synthesis of what cross disciplinary researchers know about these hazards and indigenous adaptation strategies The book therefore focuses on the use of precision techniques Remote Sensing and GIS technologies to quantify various natural environmental and social hazards along with the capacity building and sustainable mitigation strategies towards resilient societies It encompasses both thematic and regional case studies to highlight the dynamicity of climate change change of natural resources landscape water river agricultural and social ecosystems at various spatio temporal scales including theoretical and applied aspects The book gives readers an overview and analysis of traditional and advanced geospatial technologies on atmospheric lithospheric hydrosphere biospheric and socio economic contexts on all spatial and temporal scales regarding hazards and disasters and sustainable development and management for the future **Biodiversity, Conservation and Sustainability in Asia** Münir Öztürk,Shujaul Mulk Khan,Volkan Altay,Recep Efe,Dilfuza Egamberdieva,Furkat O.

Khassanov,2022-03-10 Of the world s seven continents Asia is the largest Its physical landscapes political units and ethnic groups are both wide ranging and many Southwest South and Middle Asia are highly populated regions which as a whole cover an extremely large area of varied geography In total this domain is unique in its plant diversity and large vegetation zones with different communities and biomes It is rich in endemics with specific and intraspecific diversity of fruit trees and medicinal plants including a number of rare high value species At the same time much of the land in the region is too dry or too rugged with many geographical extremes Overgrazing oil and mineral extraction and poaching are the major threats in the area This two volume project focuses on the dynamic biodiversity of the region with in depth analysis on phytosociology plants animals and agroecology There are also chapters that explore new applications as well as approaches to overcome problems associated with climate change Much of the research and analysis are presented here for the first time We believe this work is a valuable resource for professionals and researchers working in the fields of plant diversity and vegetation animal diversity and animal populations and geo diversity and sustainable land use among others The first volume guides our

readers to West Asia and the Caucasus region while volume two focuses on issues unique to South and Middle Asia

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