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REPUBLIC OF SOUTH AFRICA

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Physical Sciences Pgauteng Province September 2014

Koech Cheruiyot



Physical Sciences Pgauteng Province September 2014:

Anatomy of a South African Karst Hydrosystem Philip J. Hobbs, Harrison Pienaar, Eddie van Wyk, Yongxin Xu, 2022-08-05

This book combines the results of the research activities in the assessment of water resources environment and an integrated water resource monitoring program to support preservation efforts of the aquatic environment of the Cradle of Humankind COH World Heritage Sites. A poor understanding of the surface and groundwater resources of the COH property has precipitated often alarmist reporting in the media regarding the negative impacts associated with various sources of poor quality water. The most notable of these is the acid mine drainage threat to karst ecosystems and fossil sites across the property. These circumstances have generated wide and considerable concern for the preservation of the UNESCO inscribed fossil sites and integrity of the water resources of the property.

A framework for a green infrastructure planning approach in the Gauteng City-Region Christina Culwick, Kerry Bobbins, Anton Cartwright, Gregg Oelofse, Myles Mander, Stuart Dunsmore, 2016-09-01. As the population economy and urban built environment in the Gauteng City Region GCR expand, government is increasingly under pressure to provide urban infrastructure to support growth. It is increasingly important that this infrastructure is sustainable, minimising the negative environmental impacts often associated with traditional forms of urban development. Green Infrastructure GI is the interconnected set of natural and man-made ecological systems, green spaces and other landscape features that provide services and strategic functions in the same way as traditional infrastructure. In harnessing the benefits of ecosystem services, GI has emerged as a more efficient, cost-effective and sustainable alternative and sometimes accompanying approach to conventional forms of infrastructure. Despite international evidence demonstrating how GI can be used as an alternative to or in tandem with traditional infrastructure, the GI approach has so far gained only limited traction in the GCR. In 2013, the GCRO published the State of Green Infrastructure in the GCR report. The report established the principles that underpin GI, used available data to map the extent of GI networks in the region, assessed to what extent municipalities were aware of and applying a GI approach, and demonstrated a possible way to value GI in local government financial systems. The conclusions of the State of Green Infrastructure report were used to guide the next phase of GCRO's research in support of the adoption of GI approach, a phase focused on better understanding the opportunities for implementing GI in planning and infrastructure development programmes and on addressing some of the challenges associated with shifts towards this approach. A framework for a green infrastructure planning approach in the Gauteng City Region GCRO's fourth Research Report builds on the foundations laid in the State of Green Infrastructure report. It assembles expert inputs and reflections from collaborative stakeholder discussions in what was known as the Green Infrastructure CityLab to illustrate important considerations for the development of a GI planning approach in the Gauteng City Region GCR. The report is divided into three broad sections. Part A introduces the theoretical underpinnings of a GI approach and builds an argument for the importance of incorporating GI into planning and infrastructure development in the

GCR Part B presents three pieces written by external experts They consider how GI and ecosystem services can be valued by municipalities and how so called grey green infrastructure design solutions can be implemented in the GCR Part C reflects on the stakeholder engagement process that has been undertaken primarily through the GI CityLab to deepen understanding of how GI can be embedded in municipal practice Based on these research findings this report concludes with a strategy for GCRO s next phase of work in its ongoing Green Assets and Infrastructure Project

The Changing Space Economy of City-Regions Koech Cheruiyot, 2017-10-30 This book addresses the South African Space Economy and its stark disparities and dualisms through an assessment of the Gauteng City Region the largest economic agglomeration in the country and on a continent bedevilled by a myriad of development challenges The book s focus on understanding the overall character of Gauteng City Region s Space Economy through data mining analysis and mapping comprehensively supplements the Space Economy literature on the region It covers the disparities exacerbated by an overlay of apartheid planning ideology and top down regional development based on selective encouragement of manufacturing investments in growth points or poles and how implementation of past policies intended to cure these disparities have yielded mixed results This book further offers the Gauteng City Region as a microcosm of the national economy in the form of evident significant placed based variations in the intensity and character of economic structure that on the one hand enjoys massive agglomeration economies while on the other has high levels of poverty and large numbers of people living below the Minimum Living Level This book should appeal to urban studies specialists economists and development studies researchers in the Global South

The Global Practice of Forensic Science Douglas H. Ubelaker, 2015-02-16 The Global Practice of Forensic Science presents histories issues patterns and diversity in the applications of international forensic science Written by 64 experienced and internationally recognized forensic scientists the volume documents the practice of forensic science in 28 countries from Africa the Americas Asia Australia and Europe Each country s chapter explores factors of political history academic linkages the influence of individual cases facility development types of cases examined integration within forensic science recruitment training funding certification accreditation quality control technology disaster preparedness legal issues research and future directions Aimed at all scholars interested in international forensic science the volume provides detail on the diverse fields within forensic science and their applications around the world

Social Constructions of Water Quality in South Africa Suvania Naidoo, 2022-05-04 This book details how the water quality of the Blesbokspruit River in Gauteng South Africa was socially constructed by stakeholders and key individuals in the context of acid mine drainage AMD and its treatment Social constructionism is used as the framing for this research to explain how water is intrinsically social Findings presented here show that stakeholders are aware that the changes in the physicality of the Blesbokspruit resulted from human interventions and varied uses of the water over the years Such knowledge among factors such as the historical context of mining current coal mining flows and volumes of water technology used and processes followed information and

communication and vested interests influence social constructions of the water quality What counts as the truth about water varies depending on the individual s perspective their purpose and their individual interests Further how one defines water quality influences what treatment processes are preferred in order to improve water quality The book explains why for example a treatment process meant to improve water quality gained a bad reputation by the public because of the South African government s silo approach The book explains how these social constructions are entrenched in power relations between stakeholders regarding AMD treatment and illustrates how power was used to influence decisions to improve the water quality of the Blesbokspruit The case presented in this book offers insights and recommendations for policymakers working in water governance including means to influence social constructions of water quality and ways to clarify roles and responsibilities in pursuit of improved cooperative government

Universities, Entrepreneurial Ecosystems, and Sustainability Cristina Fernandes, Marcela Ramírez-Pasillas, João J. Ferreira, 2021-12-06 This volume presents theoretical and empirical research on universities and their entrepreneurial ecosystems to better grasp the connections between universities and their surrounding environments and their engagement with sustainability The book provides a better understanding of the entrepreneurial characteristics of universities It examines the ways in which universities collaboration and participation in an ecosystem support business and industry transformation It also investigates how universities function within the university industry government third sector relationship nexus The book enables the systematisation of the literature while simultaneously builds theory empirically testing existing theories and contributes towards a future research agenda geared towards sustainability The book gathers contributions from varied geographical contexts providing an international perspective

Mycotoxins Patrick Berka Njobeh, Francois Stepman, 2019-08-28 This Edited Volume Mycotoxins Impact and Management Strategies is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of Mycotoxicology The book comprises of single chapters authored by various researchers and edited by an expert active in this research area This book is divided into three sections Section 1 consists of one chapter that gives an overview of the socioeconomic impact of mycotoxins Section 2 has five chapters that address the prevention and control of aflatoxins both at pre and post harvest stages Section 3 has two chapters that deal with health impact and control in the poultry industry This publication aims at providing a thorough overview of the latest research efforts in the field and opens new possible research paths for further novel developments in addressing the problem of mycotoxins

Science, Technology and Innovation in BRICS Countries Swapan Kumar Patra, Mammo Muchie, 2020-06-09 The term BRICS Brazil Russia India China and South Africa is gaining global attention both in scholarly and popular discourse BRICS countries are crucial in terms of their vast areas huge population and have massive economic potential These countries are also categorized as developing countries and are aspiring to be considered as developed countries There is commonality among these countries in that they have similar issues and problems which may require common solutions

Science Technology and Innovation in BRICS Countries examines whether more emphasis on Science Technology and Innovation STI capability building could be the solution to these countries economic upgradation and poverty reduction This book is a collection of various Science Technology and Innovation STI issues of BRICS economics and will be of interest to general readers scholars working in this field as well as policy makers all over the globe The contributions come from various scholars across the globe who have published their BRICS economics research in a special issue of the African Journal of Science Technology Innovation and Development *The National Agricultural Directory 2009* ,2009 **People Living with Disabilities in South African Cities** Hangwelani Hope Magidimisha-Chipungu,2024-10-22 This book offers a unique and much needed perspective on disability and accessibility in urban context in South Africa Drawing on lived experiences of disabled people it documents the multidimensional aspect of poverty in the context of disability and built environment to show how poorly planned cities create physical and social barriers that impact the life of people with disabilities People Living with Disabilities in South African Cities is structured around three main insights and themes that inform the author s approach to disability and cities The first is disability research drawing on studies on planning and the built environment the author highlights the role of physical environment in promoting inclusion and accessibility for people with disabilities The second theme is social protection i e ways to provide support and resources for people with disabilities to enable them to participate fully in society Finally the author explores the policies and legislative context needed to create an inclusive society challenging the role of governments and policy makers Offering a comprehensive approach to studying disabilities and cities the author aims to bridge the gap between disability studies inclusive planning and design to support the development of accessible cities in the African context This invaluable book not only raises awareness on social inclusion but also offers an invaluable guide to policy makers across the Global South to tackle and address inequalities *Annual Report South Africa*. Department of Basic Education,2016 **We cannot continue like this** Attie S. van Niekerk,Sytse Strijbos,2022-02-07 The book is based on the view that the present trajectory of modern development cannot continue as it is now because it is ecologically unsustainable it continues to enlarge the gap between rich and poor and the decolonisation movement has drawn our attention again to the specific role of religion culture and value in human affairs and the need for a robust element of indigenisation and contextualisation This book is strongly focused on the context of Africa with two chapters that are written by authors from the Netherlands for the purpose of presenting a North South dialogue The book contains a reflection on approaches followed in building sustainable human communities in general and reflection on specific efforts to solve sustainability issues It seeks to integrate academic reflection and insights gained from practical involvement with sustainability issues in local communities and low income households with contributions from Theology and Natural and Social Sciences *Doping and Anti-Doping in Africa* Yamikani Ndasauka,Simon Mathias Makwinja,2023-12-21 This is the first book to focus on the problem of performance enhancing substances and methods also known as doping in sports from

African perspectives Placing traditional African thinking and indigenous knowledge systems at the centre of the analysis this book shines new light on the distinctive characteristics of African sporting cultures doping practices the management of anti doping and new methods for preventing doping in sports that take into account African value systems This book draws on multidisciplinary work from philosophy ethics sociology history and political science and presents real world case studies of doping and anti doping from across the African continent It explores key themes and sites in African sport culture and society including African art traditional medicine attitudes towards doping in Africa sport policy education systems media and communications and the problem of privacy in African sports This book also considers the uniquely African challenges in anti doping against the background of the World Anti Doping Agency policy and practice and wider international anti doping efforts This book is a fascinating reading for students and researchers with an interest in sport studies African studies crime and deviance or public policy and for sports administrators sports policymakers or practitioners working in international national or regional sports organisations

A path to wellness in the educational and health systems Lynn

Preston,Wanda van der Merwe,2023-11-30 The Six Bricks initiative is a teaching and learning method that encourages focused engagement in the classroom by all learners from the foundation phase to adulthood By using six simple colourful DUPLO bricks an element of play is introduced into a situation that inevitably leads to all individuals focusing and interacting This is one of the major contributions to all teaching and learning disciplines and promotes the audience to learn with enjoyment enthusiasm and concentration Along with this communication is promoted sparking unimaginable creativity and creation This book provides the reader with an alternative focus to the original educational application of the Six Bricks activities This Six Bricks initiative focuses on the therapeutic application and processes in communities schools and within individuals themselves As each author has had an intimate connection with Six Bricks initiative they are all more than qualified to provide their autoethnographic reflections on this initiative which holds so much promise and excitement for learning and teaching Therefore each author s contributions were original and personalised providing a new field in the avenues of research in the South African context as South Africa does not have as yet much research on this topic The methodology used in this qualitative research study was primarily from each author s perspective thus their self reflection and anecdotal personal experiences form the core of these chapters Therefore this autoethnographic is a self reflective form of writing which involves self observation and reflective investigation in the context of ethnographic fieldwork and writing

Smart Futures, Challenges of Urbanisation, and Social Sustainability Mohammad Dastbaz,Wim Naudé,Jamileh Manoochehri,2018-04-10 This book tackles the challenges posed by accelerating urbanization and demystifies Social Sustainability the least understood of all the different areas of sustainable development The volume s twin focus on these profoundly intertwined topics creates a nuanced and vitally important resource Large migrations from rural areas to cities without appropriate planning and infrastructure improvements including housing education and health care optimization

have created significant challenges across the globe The authors suggest technology rich strategies to meet these challenges by careful application of data on population growth and movement to the planning design and construction of operational infrastructures that can sustainably support our increasingly rapid population growth

A scholarly inquiry into disciplinary practices in educational institutions Connie B. Zulu,Izak J. Oosthuizen,Charl C. Wolhuter,Corene de Wet,Rika Joubert,Ansie E. Kitching,Michael L. Marumo,Zahraa McDonald,Nicholus T. Mollo,Louis J. Oosthuizen,Ferdinand J. Potgieter,Bianke van Rooyen,Marius H. Smit,Amos T. Thebenyane,Andre van der Bijl,Johannes (Hannes) L. van der Walt,2019-12-12 This book is a collection of chapters based on original research dealing with issues of discipline and disciplinary practices in educational institutions The aim of the book is to provide a scholarly and scientific perspective on the current state of discipline and disciplinary practices in schools and tertiary education settings The issue of discipline is investigated from diverse paradigmatic and methodological perspectives presenting empirical as well as also philosophical research The empirical perspective includes quantitative positivistic qualitative interpretive and mixed methods pragmatic designs and worldviews This book offers a ground breaking contribution to the field of learner and student discipline with insights into disciplinary practices and issues in educational institutions not hitherto researched such as Technical Vocational Education and Training colleges and universities

E-waste Recycling and Management Anish Khan,Inamuddin,Abdullah M. Asiri,2019-06-04 This book gives up to date information and broad views on e waste recycling and management using the latest techniques for industrialist and academicians It describes the problems of e waste generated by all global living communities and its impact on our ecosystems and discusses recycling techniques in detail to reduce its effect as well as proper management of e waste to save the environment It also considers future technological expectations from e waste recycling and management technologies

A youth empowerment model designed to tackle school violence in South Africa Fathima Dewan,2024-12-17 School based violence is of major concern in the South African schooling system particularly in secondary schools School based violence has a negative impact on the physical social cognitive and emotional well being of learners and teachers To compound matters family and community environment also play a role in escalating school violence There is a need to develop interventions that are evidence based and developmental in nature to address the issue of reducing school based violence Youth empowerment can be used as a helpful strategy to address the issue of school based violence This scholarly book focuses on using the framework of youth empowerment to address the issue of school based violence Through sound research the author proposes that schools should involve learners in decision making around school policies and design strategies to address school violence to create safer schools and a better school climate The author further posits using key aspects of youth empowerment in school violence campaigns and programmes to increase youth motivation to collectively influence changes within their school through a process of shared decision making collective vision and partnership with young people

An Indoor Air Quality Management Framework for

Municipal Buildings in Developing Economies Mpho Ndou, Clinton Ohis Aigbavboa, Wellington Didibhuku Thwala, Abdul-Majeed Mahamadu, 2025-05-06 This book delves into the pivotal issue of Indoor Air Quality (IAQ) management in municipal buildings within developing economies, addressing a pressing need in today's digital age where individuals spend over 70% of their time indoors. With a strong focus on enhancing environmental quality, this book presents theoretical frameworks and practical recommendations designed explicitly for stakeholders in the higher education sector encompassing both public and private institutions. As institutions strive to improve their learning environments, this book aligns with global Sustainable Development Goals (SDGs), highlighting the vital connection between effective IAQ management and the health and well-being of the institutional community, including students and staff members. It provides a comprehensive framework that advocates for improved IAQ management and emphasises the importance of quality education and lifelong learning. Furthermore, this book serves as a valuable resource for green building regulatory bodies ensuring adherence to best practices in IAQ management within municipal buildings. By providing actionable strategies grounded in recent literature, the book is an essential guide for researchers and policymakers seeking to navigate the theoretical and empirical dimensions of IAQ management. Moreover, this book asserts that enhancing IAQ is necessary not only for regulatory compliance and community well-being but also as a vital investment in the academic and operational success of municipal buildings in developing economies.

Medical Geology of Africa Theophilus Clavell Davies, 2024-06-14 *Medical Geology of Africa* explores the connection between geological materials, processes, and the health of humans and animals. The book fosters an improved understanding of the ways in which the geological environment impacts the geographical distribution of health problems and how they contribute to better diagnoses and therapy. Africa's unique geo-environmental condition gives added relevance to such studies, underlining the need for geoscience and public health students and practitioners to understand new principles and applications. Chapters in the book provide extended enquiry-based investigations and examples that employ real geochemical datasets, epidemiological records, public health statistics, and visualizations. Provides a summary of current research on Medical Geology of Africa. Identifies gaps in knowledge of the role of the geo-environment in deciphering unknown aetiologies. Assembles the most recent literature on current thematic issues and prescribes directions of future research.

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web another issue is that the orbital notation is getting long there is a shortcut note the argon electron configuration above is 1s² 2s² 2p⁶ 3s² 3p⁶ which could simply be called

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web the easiest way to create electron configurations is using an electron configuration table which is a way of writing down the various orbitals available to electrons this table is

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web write the complete electron configuration for each isotope answer co has 27 protons 27 electrons and 33 neutrons 1 s 2 2 s 2 2 p 6 3 s 2 3 p 6 4 s 2 3 d 7

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