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Ecological Informatics Friedrich Recknagel, William K. Michener, 2017-09-21 This book introduces readers to ecological informatics as an emerging discipline that takes into account the data intensive nature of ecology the valuable information to be found in ecological data and the need to communicate results and inform decisions including those related to research conservation and resource management At its core ecological informatics combines developments in information technology and ecological theory with applications that facilitate ecological research and the dissemination of results to scientists and the public Its conceptual framework links ecological entities genomes organisms populations communities ecosystems landscapes with data management analysis and synthesis and communicates new findings to inform decisions by following the course of a loop In comparison to the 2nd edition published in 2006 the 3rd edition of Ecological Informatics has been completely restructured on the basis of the generic conceptual framework provided in Figure 1 It reflects the significant advances in data management analysis and synthesis that have been made over the past 10 years including new remote and in situ sensing techniques the emergence of ecological and environmental observatories novel evolutionary computations for knowledge discovery and forecasting and new approaches to communicating results and informing decisions **The Oxford**

Handbook of Comparative Environmental Law Emma Lees, Jorge E. Viñuales, 2019 This Handbook brings together the foremost authorities from around the world to provide the first comprehensive account of comparative environmental law It examines in detail the methodological foundations of the discipline as well as the substance of environmental law across countries **Rock | Water | Life** Lesley Green, 2020-03-20 In Rock Water Life Lesley Green examines the interwoven

realities of inequality racism colonialism and environmental destruction in South Africa calling for environmental research and governance to transition to an ecopolitical approach that could address South Africa's history of racial oppression and environmental exploitation Green analyzes conflicting accounts of nature in environmental sciences that claim neutrality amid ongoing struggles for land restitution and environmental justice Offering in depth studies of environmental conflict in contemporary South Africa Green addresses the history of contested water access in Cape Town struggles over natural gas fracking in the Karoo debates about decolonizing science the potential for a politics of soil in the call for land restitution urban baboon management and the consequences of sending sewage to urban oceans *Economic and Geopolitical*

Perspectives of the Commonwealth of Independent States and Eurasia Karnaukhova, Oxana, Udovikina,

Alexandra, Christiansen, Bryan, 2018-06-01 The Commonwealth of Independent States CIS is a regional organization that formed during the breakup of the Soviet Union in 1991 It has few supranational powers but aims to be more than a purely symbolic organization nominally possessing coordinating powers in the realm of trade finance lawmaking and security As such it is vital to examine this region and its economic and geopolitical impacts on the world *Economic and Geopolitical Perspectives of the Commonwealth of Independent States and Eurasia* is a vital research publication that explores the

importance and influence of the Commonwealth of Independent States and Eurasia in the twenty first century Highlighting a wide range of topics such as sovereign democracy economic integration and foreign policy this book is geared toward business managers economists business professionals entrepreneurs business analysts and researchers seeking current research on the effects of political organizations like the CIS on various regions

Review of the state of the world fishery resources: Inland fisheries Food and Agriculture Organization of the United Nations,2018-11-05 The FAO Fishery and Aquaculture Circular C942 Revision 3 C942 Rev 3 updates and expands the scope of previous revisions of the circular C942 Rev 3 is an important baseline document intended to assist in the global understanding of inland fisheries and inform dialogue on their current and future role The third revision reviews the status and trends of inland fisheries catch at global continental and subcontinental levels It places inland capture fisheries in the context of overall global fish production and calls attention to the importance of inland capture fisheries with respect to food security and nutrition and the Sustainable Development Goals It quantifies global inland fisheries resources in terms of food production nutrition employment economic contribution with respect to those countries regions or subnational areas where they are important A characterization approach to distinguish large scale and small scale fishing operations and their relative contributions is provided The review provides estimated economic values of inland fisheries as well as a valuation of potential replacement cost of these in terms of dollars other resources such as land and water feeds There is also an analysis of the extent and economic value of recreational inland fisheries The contribution to employment and the gender differences related to this are quantified The linkages between inland fisheries and biodiversity are also explored C942 Rev 3 discusses ways to measure and assess inland fisheries in particular how to establish more accurately inland fishery catches in the many situations where there are challenges to collection of catch statistics

South Africa's water governance hydraulic mission (1912-2008) in a WEF-Nexus context Johann W.N. Tempelhoff,2018-12-01 Geologists physicists and ecologists currently promote the idea of a post Holocene epoch the Anthropocene As a result of constant innovation and modernisation in the fields of engineering natural science management studies and environmental studies there has been a growing awareness of the intrinsic interaction between humankind and the environment Humankind has become part of the environmental dynamics to the extent that they are literally able to change ecosystems Nowhere is the impact more evident than in the anthropogenic engagement with the hydrosphere from the smallest pool of water to the earth s atmosphere Comprehensive infrastructure development in water and sanitation the growing trend to seek additional resources in the form of groundwater desalinated seawater and recycled wastewater as well as special attention being given to capturing and preserving rainwater bear evidence of a timely response to climate change population growth and rapid development in many water stressed regions of the world The purpose of the book is to provide a historical overview of the manner in which South Africa s water resources have been governed from a time when the Union of South Africa was formed in 1910 up to 2008 a time of a growing global

awareness of the potential impact that climate change may have on water resources in a key region of southern Africa notable for increasing levels of aridity and more erratic rainfall patterns This focus on the history of water affairs in South Africa makes it possible for scholars to comprehend the contemporary transitions made in the country s water governance system since the establishment in 2014 of the Department of Water and Sanitation The focus is on the Water Energy Food nexus a strategy which holistically contemplates the governance and use of water from the perspective of the interconnection between water energy and food as resources

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

New South African Review 6 Devan Pillay,Gilbert M Khadiagala,Roger Southall,Sarah Mosoetsa,Samuel Kariuki,2018-01-29 Wide ranging essays demonstrate how the consequences of inequality extend throughout society and the political economy Despite the transition from apartheid to democracy South Africa is the most unequal country in the world Its extremes of wealth and poverty undermine intensifying struggles for a better life for all The wide ranging essays in this sixth volume of the New South African Review demonstrate how the consequences of inequality extend throughout society and the political economy crippling the quest for social justice polarising the politics skewing economic outcomes and bringing devastating environmental consequences in their wake Contributors survey the extent and consequences of inequality across fields as diverse as education disability agrarian reform nuclear geography and small towns and tackle some of the most difficult social political and economic issues How has the quest for greater equality affected progressive political discourse How has inequality reproduced itself despite best intentions in social policy to the detriment of the poor and the historically disadvantaged How have shifts in mining and the financialisation of the economy reshaped the contours of inequality How does inequality reach into the daily social life of South Africans and shape the way in which they interact How does the extent and shape of inequality in South Africa compare with that of other major countries of the global South which themselves are notorious for their extremes of wealth and poverty South African extremes of inequality reflect

increasing inequality globally and *The Crisis of Inequality* will speak to all those general readers policy makers researchers and students who are demanding a more equal world *Contradictions of Democracy* Nicholas Rush Smith,2019-01-17 Despite being one of the world s most vibrant democracies police estimate between five and ten percent of the murders in South Africa result from vigilante violence This is puzzling given the country s celebrated transition to democracy and massive reform of the state s legal institutions Where most studies explain vigilantism as a response to state or civic failure in *Contradictions of Democracy* Nicholas Rush Smith illustrates that vigilantism is actually a response to the processes of democratic state formation In the context of densely networked neighborhoods vigilante citizens often interpret the technical success of legal institutions for instance the arrest and subsequent release of suspects on bail as failure and work to correct such perceived failures on their own Smith also shows that vigilantism provides a new lens through which to understand democratic state formation Among young men of color in some parts of South Africa fear of extra judicial police violence is common Amid such fear instead of the state seeming protective it can appear as something akin to a massive vigilante organization An insightful look into the high rates of vigilantism in South Africa and the general challenges of democratic state building *Contradictions of Democracy* explores fundamental questions about political order the rule of law and democratic citizenship *Disaster Studies* Janki Andharia,2020-03-25 This book covers several dimensions of disaster studies as an emerging discipline It is the inaugural book in the series *Disaster Studies and Management* and deals with questions such as Is disaster management a field of practice a profession or simply a new area of study Exploring intersectionalities the book also examines areas of research that could help enhance the discourse on disaster management from policy and practice perspectives revisiting conventional event centric approaches which are the basis for most writings on the subject Several case studies and comparative analyses reflect a critical reading of research and practice concerning disasters and their management The book offers valuable insights into various subjects including the challenge of establishing inter and multi disciplinary teams within the academia involved in disaster studies and sociological and anthropological readings of post disaster memoryscapes Each of the contributors has an enduring interest in disaster studies thus enriching the book immensely This book will be of interest to all the students and scholars of disaster studies and disaster management as well as to practitioners and policymakers **Increasing Resilience to Climate Variability and Change** Cecilia Tortajada,2016-08-18 This book highlights the role that both infrastructure and governance play in the context of resilience and adaptation to climate variability and change Eleven case studies analyze in depth impacts of extreme events in projects basins and regions in the Arid Americas Unites States and Mexico Australia Brazil China Egypt France Nepal Mexico Pakistan Turkey and South Africa They discuss the importance of infrastructure mainly reservoirs in adaptation strategies how planning and management aspects should improve in response to changing climatic economic social and environmental situations and what the management institutional and financial challenges would be for their

implementation Governance aspects policies institutions and decision making and technical and knowledge limitations are a substantial part of the analyses The case studies argue that reservoirs are essential to build resilience contributing to adaptation to climate variability and change However that for them to be effective they need to be planned and managed within a governance framework that considers long term perspectives and multi sector and multi level actor needs and perspectives

Knowledge for Justice Tor Halvorsen, Hilde Ibsen, 2017-11-28 With the adoption of the United Nations Sustainable Development Goals SDGs and the Paris Agreement the purpose of development is being redefined in both social and environmental terms Despite pushback from conservative forces change is accelerating in many sectors To drive this transformation in ways that bring about social environmental and economic justice at a local national regional and global levels new knowledge and strong cross regional networks capable of foregrounding different realities needs and agendas will be essential In fact the power of knowledge matters today in ways that humanity has probably never experienced before placing an emphasis on the roles of research academics and universities In this collection an international diverse collection of scholars from the southern African and Nordic regions critically review the SDGs in relation to their own areas of expertise while placing the process of knowledge production in the spotlight In Part I the contributors provide a sober assessment of the obstacles that neo liberal hegemony presents to substantive transformation In Part Two lessons learned from NorthSouth research collaborations and academic exchanges are assessed in terms of their potential to offer real alternatives In Part III a set of case studies supply clear and nuanced analyses of the scale of the challenges faced in ensuring that no one is left behind This accessible and absorbing collection will be of interest to anyone interested in NorthSouth research networks and in the contemporary debates on the role of knowledge production The Southern AfricanNordic Centre SANORD is a network of higher education institutions that stretches across Denmark Finland Iceland Norway Sweden Botswana Namibia Malawi South Africa Zambia and Zimbabwe Universities in the southern African and Nordic regions that are not yet members are encouraged to join

Knowledge for Justice Halvorsen, Tor, Ibsen, Hilde, 2017-11-28 With the adoption of the United Nations Sustainable Development Goals SDGs and the Paris Agreement the purpose of development is being redefined in both social and environmental terms Despite pushback from conservative forces change is accelerating in many sectors To drive this transformation in ways that bring about social environmental and economic justice at a local national regional and global levels new knowledge and strong cross regional networks capable of foregrounding different realities needs and agendas will be essential In fact the power of knowledge matters today in ways that humanity has probably never experienced before placing an emphasis on the roles of research academics and universities In this collection an international diverse collection of scholars from the southern African and Nordic regions critically review the SDGs in relation to their own areas of expertise while placing the process of knowledge production in the spotlight In Part I the contributors provide a sober assessment of the obstacles that neo liberal hegemony presents to substantive transformation In

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Microstructural Geochronology Desmond E. Moser, Fernando Corfu, James R. Darling, Steven M. Reddy, Kimberly Tait, 2017-11-17 Microstructural Geochronology Geochronology techniques enable the study of geological evolution and environmental change over time This volume integrates two aspects of geochronology one based on classical methods of orientation and spatial patterns and the other on ratios of radioactive isotopes and their decay products The chapters illustrate how material science techniques are taking this field to the atomic scale enabling us to image the chemical and structural record of mineral lattice growth and deformation and sometimes the patterns of radioactive parent and daughter atoms themselves to generate a microstructural geochronology from some of the most resilient materials in the solar system First compilation of research focusing on the crystal structure material properties and chemical zoning of the geochronology mineral archive down to nanoscale Novel comparisons of mineral time archives from different rocky planets and asteroids and their shock metamorphic histories Fundamentals on how to reconstruct and date radiogenic isotope distributions using atom probe tomography Microstructural Geochronology will be a valuable resource for graduate students academics and researchers in the fields of petrology geochronology mineralogy geochemistry planetary geology astrobiology chemistry and material science It will also appeal to philosophers and historians of science from other disciplines

Deanship in the Global South Oliver J.J. Seale, 2021-02-08 The university today is a postmodern neo liberal competitive boundary less knowledge conglomerate a far cry from its historical traditional classical and collegial roots There is a body of literature on deanship that points to its evolving nature in the contemporary academe characterised by complexity and change Balancing academic demands simultaneously with the requirements for effective performance leadership and management lies at the heart of this very challenging bridging role nowadays Deans are generally former academics emerging from a traditional collegial space and often catapulted into the relatively unknown domain of executive management with its related problems Deans nowadays are required to be more than collegial intellectual leaders They are also meant to be fiscal and human resource experts fundraisers politicians and diplomats Deanship in the Global South Bridging Troubled Waters is about the deans lived reality as they try to balance the demands of both the academe from which they emerge and the administration to whom they now need to account Their lack of preparation and inadequate support points to the need for a more strategic integrated approach to leadership

development within their critical bridging roles between the academe and administration 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 **Minerals Yearbook** ,2011 **Trans-jurisdictional Water Law and Governance** Janice Gray, Cameron Holley, Rosemary Rayfuse, 2016-06-23 Governance of global water resources presents one of the most confounding challenges in contemporary natural resource governance With considerable government citizen and financial donor attention devoted to a range of international transnational and domestic laws and policies aimed at protecting managing and sustainably using fresh and coastal marine water resources this book proposes that sustainable water outcomes require a trans jurisdictional approach to water governance Focusing on the concept of trans jurisdictional water governance the book diagnoses barriers and identifies pathways to coherent and coordinated institutional arrangements between and across different bodies of laws at local national regional and international levels It includes case studies from the European Union Australia New Zealand South Africa the United States and Southeast Asia Leading specialists offer insights into the pretence and the promise of trans jurisdictional water governance and provide readers including students practitioners policy makers and academics with a basis for better analysing articulating and synthesising standards of good trans jurisdictional water governance both in theory and in practice Uranium Anthony Burke, 2017-07-03 Uranium the most atomically unstable natural element on earth has a unique place in the global geopolitics of resources It provides energy to millions of people and its isotopes are used to power spacecraft and in nuclear medicine But it is also at the heart of many of the planet s most deadly threats including nuclear devastation and radioactive

waste Its mining has caused bitter conflict with indigenous peoples and its testing in nuclear weapons has left a toxic legacy Yet the nonproliferation regime which aims to phase out nuclear weapons and manage the risks of nuclear energy is at risk of unravelling In this book Anthony Burke explores the geopolitical intrigue around uranium and the dilemmas of justice and security to which its development has given rise The twenty first century he cautions will be a time of reckoning and new reserves of political will must be found to manage the impact of this extraordinary mineral Only by cooperating to achieve multilateral disarmament and greater international control over nuclear power can we ward off nuclear catastrophe and harness the potential of nuclear energy to help address rather than create some of the world s most pressing problems

Evaluation of Small Business Support in Post-Apartheid South Africa Timothy Olaniyi Aluko, 2025-11-28 This book examines the effectiveness of Small Business Support programmes in South Africa and addresses the challenges and other fundamental issues of market failure The argument is that most intervention programmes do not always translate into positive economic development With that this book discusses and presents theory and conceptual models used to measure the effectiveness of a state grant funded programme and foregrounds perspectives and objectives of the programme from implementation evaluation and performance dimensions

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