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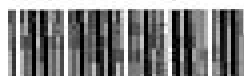
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**Philip J. Hobbs, Harrison Pienaar, Eddie
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Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems mitigation technologies for the reduction of environmental pollutants and the development of intelligent energy systems Environmental social and economic impacts of energy systems are also addressed in depth Published in full colour throughout Fully indexed with cross referencing within and between all six volumes Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription

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

Routledge Handbook of the Global South in Sport for Development and Peace Billy Graeff, Simona Šafaříková, Lin Cherurbai Sambili-Gicheha, 2024-07-18 This book explores the field of Sport for Development and Peace SDP putting Global South voices and perspectives at the centre of the analysis Covering a wide range of thematic and methodological areas that inform existing and emerging discourses in SDP it represents an unparalleled resource for researchers and practitioners working in this area Arranged into geographical sections covering Africa Asia South America North America and Oceania the book presents original research in Global South countries or by Global South researchers and practitioners sometimes in collaboration with colleagues from the Global North It highlights practices and theories created developed interpreted and reinterpreted by people who belong to the communities where these sporting experiences have been taking place and whose critical reflections and experiences have yet to gain attention in international academic and practitioner communities in the English language The book presents the views of diverse stakeholders programme participants promoters coaching staff volunteers researchers teachers lecturers and other actors that have been difficult to access for researchers who do not usually speak languages other than English A landmark publication in the field of SDP this book is essential reading for any advanced student research practitioner or policy maker with an interest in the value of sport in international development

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

Reducing Fuel

Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two National Academies of Sciences, Engineering, and Medicine, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Assessment of Technologies and Approaches for Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles, Phase Two, 2020-05-15 Medium and heavy duty trucks motor coaches and transit buses collectively medium and heavy duty vehicles or MHDVs are used in every sector of the economy The fuel consumption and greenhouse gas emissions of MHDVs have become a focus of legislative and regulatory action in the past few years This study is a follow on to the National Research Council's 2010 report Technologies and Approaches to Reducing the Fuel Consumption of Medium and Heavy Duty Vehicles That report provided a series of findings and recommendations on the development of regulations for reducing fuel consumption of MHDVs On September 15 2011 NHTSA and EPA finalized joint Phase I rules to establish a comprehensive Heavy Duty National Program to reduce greenhouse gas emissions and fuel consumption for on road medium and heavy duty vehicles As NHTSA and EPA began working on a second round of standards the National Academies issued another report Reducing the Fuel Consumption and Greenhouse Gas Emissions of Medium and Heavy Duty Vehicles Phase Two First Report providing recommendations for the Phase II standards This third and final report focuses on a possible third phase of regulations to be promulgated by these agencies in the next decade **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, Nicholas 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 **Thermal Energy** Yatish T. Shah, 2018-01-12 The

book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel

processes and devices used to improve transfer and transformation processes *E-Government* Kelvin J. Bwalya, Stephen M. Mutula, 2014-09-12 E Government is a hot topic The integration of Information and Communication Technologies into public service delivery worldwide offers a number of promising opportunities This text refers in particular to the benefits derived from ubiquitous access to and delivery of government services to citizens business partners and employees This book analyses the fundamental technical and non technical concepts that are essential for successful implementation of e Government in diverse environments especially in developing countries This book is an indispensable resource for both e Government practitioners and researchers in that it brings to the fore scholarly scrutiny scientific debate and best practice in e Government The author has a background in computer and information science and accentuates the multi disciplinary nature of the issues surrounding e Government New Updates in E-Learning Eduard Babulak, 2022-05-18 This book presents state of the art educational technologies and teaching methodologies and discusses future educational philosophies in support of the global academic society New Updates in E Learning is a collection of chapters addressing important issues related to effective utilization of the Internet and Cloud Computing virtual robotics and real life application of hybrid educational environments to enhance student learning regardless of geographical location or other constraints Over ten chapters the book discusses the current and future evolution of educational technologies and methodologies and the best academic practices in support of providing high quality education at all academic levels Geological disasters and its prevention in deep mining Shuren Wang, Hongyuan Liu, Lianchong Li, Chengguo Zhang, 2023-02-02 *Waste Management and the Environment VIII* C.A. Brebbia, H. Itoh, 2016-07-14 Waste Management and the Environment VIII contains papers present at the 8th International Conference on Waste Management and the Environment organised every two years by the Wessex Institute The contents were contributed by professionals researchers government departments and local authorities and cover the current situation of waste management Waste Management is one of the key problems of modern society due to the ever expanding volume and complexity of discarded domestic and industrial waste There is a need to establish better practices and safer solutions for waste disposal This requires further investigation into disposal methods and recycling as well as new technologies to monitor waste disposal sites clean technologies waste monitoring public and corporate awareness and general education Unfortunately many of the policies adopted in the past were aimed at short term solutions without regard to the long term implications on health and the environment leading in many cases to the need to take difficult and expensive remedial action The development of sustainable strategies is the preferred trend for Waste Management The approach which has emerged as the most promising has been called 4Rs where reduction reuse recycling and recovery including the sale of waste as Secondary Raw Materials SRM and of Refuse Derived Fuel RDF are seen as the best actions This largely decreases the volume of waste that needs final disposal Contents cover such topics as Environmental impact Reduce reuse recycle and recovery 4Rs Waste incineration and gasification Energy from waste

Industrial waste management Hazardous waste Agricultural waste Wastewater eWaste Landfill optimisation and mining Remote sensing Thermal treatment Emergent pollutants Environmental remediation Direct and indirect pre treatment of MSW Disposal of high level radioactive waste Legislation Behavioural issues **Education leadership** Leentjie van Jaarsveld, Charl C. Wolhuter, C.P. van der Vyver, 2023-03-01 Leadership in education has been demonstrated to make a measurable and significant impact on the success of schools and the achievement levels of learners This book displays the scope and range of the emerging field of the scholarship of education leadership by means of chapters zooming in on various areas of research in the field The ensuing chapters focusing on various areas in the field of Education Leadership scholarship are ordered in the following categories chapters dealing with teacher leadership school leadership and mid level leadership The sections cover Collective Teacher efficacy in high performing high schools in South Africa leadership and leadership challenges of school principals of special schools entrepreneurial leadership perceptions of school staff and school governing bodies regarding the use and maintenance of ageing school facilities and continuous professional development of teachers in Namibia All the chapters employ a variety of research methods The research reported on in each of the chapters does not only give clear indications as to how and where to improve practice but also opens vistas for new and future research suggesting to scholars in the field promising ways to take the field forward with research critical to the continual advance and relevance of the field *Policy and Politics for Nurses and Other Health Professionals: Advocacy and Action* Donna M. Nickitas, Donna J. Middaugh, Veronica Feeg, 2018-08-22 Policy and Politics for Nurses and Other Health Professionals Third Edition focuses on the idea that all healthcare providers require a fundamental understanding of the healthcare system including but not limited to knowledge required to practice their discipline **Glencoe Physical Science** ,1997
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web cycloalkanes are cyclic hydrocarbons meaning that the carbons of the molecule are arranged in the form of a ring

cycloalkanes are also saturated meaning that all of the carbons atoms that make up the ring are single bonded

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web carbon 1 sp 180 carbon 2 sp 180 carbon 3 sp² 120 carbon 4 sp² 120 carbon 5 sp³ 109 5 chemically the alkynes are similar to the alkenes since the C-C-C functional group has two π bonds alkynes typically react even more readily and react with twice as much reagent in addition reactions