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Material and Energy Recovery from Solid Waste for a Circular Economy
Applications of Geotechnical Mechanics in Underground Engineering
Waste Management: Concepts, Methodologies, Tools, and Applications
Mineral solubilizing microorganisms (MSM) and their applications in nutrient availability, weathering and bioremediation
Handbook of Research on Applied Artificial Intelligence and Robotics for Government Processes
Handbook of the Sociology of the Military
Computational Fluid Dynamics
Spatial Modelling and Failure Analysis of Natural and Engineering Disasters through Data-based Methods
South Africa and United Nations Peacekeeping Offensive Operations
Optimized Genetic Programming Applications: Emerging Research and Opportunities
Sustainable Earth and Beyond
Numerical Methods and Implementation in Geotechnical Engineering - Part 1
Transparent Soil Modelling Technique and Its Application
Contemporary Issues in South African Military Psychology
Policing and Boundaries in a Violent Society
Machine Learning Applications in Civil Engineering
Iccws 2015 - The Proceedings of the 10th International Conference on Cyber Warfare and Security
Uncertainty, Modeling, and Decision Making in Geotechnics
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Sustainable Infrastructure: Breakthroughs in Research and Practice
Numerical Methods and Implementation in Geotechnical Engineering - Part 2
Basics of Computational Geophysics
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Modern Applications of Geotechnical Engineering and Construction
Robotic Systems: Concepts, Methodologies, Tools, and Applications
Proceedings of the 6th International Symposium on Uncertainty Quantification and Stochastic Modelling

Government Identity Theft, Form #05.046
The Cambridge Handbook of Technological Disruption in Labour and Employment Law
International RILEM Conference on Early-Age and Long-Term Cracking in RC Structures
Good Practices and New Perspectives in Information Systems and Technologies
Environmental change driven by climatic change, tectonism and landslide
South Africa's Post-Apartheid Military
Military Psychology for Africa
Military Social Work Around the Globe
Geosynthetics for Development of Transportation Infrastructures
Internet of Things and Machine Learning in Agriculture
National Liberation in Post-Colonial Southern Africa
Sustainability Trends and Challenges in Civil Engineering
EuroKarst 2016, Neuchâtel
Theorizing Local Migration Law and Governance

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Material and Energy Recovery from Solid Waste for a Circular Economy

Routledge

This volume gathers the latest advances, innovations and applications in the field of crack control in concrete, as presented by leading international researchers and engineers at the International RILEM Conference on Early-age and Long-term Cracking in RC Structures (CRC 2021),

held in Paris, France on April 9, 2021. It covers early-age and long-term imposed deformations in concrete, analytical formulations for calculating crack widths in concrete, numerical simulations of early-age and long-term restrained behaviour of concrete elements, experimental investigations on cracking, on-site monitoring of imposed deformations and cracking, crack control and repair, and sustainability of design and remediation. The conference demonstrated that a comprehensive approach to this problem requires the design of robust experimental

techniques, the development of multiscale models and the evaluation of code-based and other analytical approaches relevant to crack control in concrete. The contributions, which were selected through a rigorous international peer-review process, share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations. *Applications of Geotechnical Mechanics in Underground Engineering* IGI Global
This book explores how social and territorial boundaries have influenced the approaches and practices of the South

Africa Police Service (SAPS). By means of a historical analysis of South Africa, this book introduces a new concept, 'police frontierism', which illuminates the nature of the relationships between the police, policing and boundaries, and can potentially be used for future case study research. Drawing on a wealth of research, this book examines how social and territorial boundaries strongly influenced police practices and behaviour in South Africa, and how social delineations amplify and distort existing police prejudices against those communities on the other side of the boundary. Focusing on cases of high-density police operations, public-order policing and the recent policing of the COVID-19 lockdown, this book argues that poor economic conditions combined with an increased militarisation of the SAPS and a decline in public trust in the police will result in boundaries continuing to fundamentally inform police work in South Africa. This book will be of interest to scholars and students interested in policing in post-colonial societies characterised by high levels of violence, as well as police work and police militarization.

Waste Management: Concepts, Methodologies, Tools, and Applications
CRC Press

This book is the result of a careful selection of contributors in the field of CFD. It is divided into three sections according to the purpose and approaches used in the development of the contributions. The first section describes the "high-performance computing" (HPC) tools and their impact on CFD modeling. The second section is dedicated to "CFD models for local and large-scale industrial phenomena." Two types of approaches are basically contained here: one concerns the adaptation from global to local scale, - e.g., the applications of CFD to study the climate changes and the adaptations to local scale. The second approach, very challenging, is the multiscale analysis. The third section is devoted to "CFD in numerical modeling approach for experimental cases." Its chapters emphasize on the numerical approach of the mathematical models associated to few experimental (industrial) cases. Here, the impact and the importance of the mathematical modeling in CFD are focused on. It is expected that the

collection of these chapters will enrich the state of the art in the CFD domain and its applications in a lot of fields. This collection proves that CFD is a highly interdisciplinary research area, which lies at the interface of physics, engineering, applied mathematics, and computer science.

Mineral solubilizing microorganisms (MSM) and their applications in nutrient availability, weathering and bioremediation Springer Nature
Uncertainty, Modeling, and Decision Making in Geotechnics shows how uncertainty quantification and numerical modeling can complement each other to enhance decision-making in geotechnical practice, filling a critical gap in guiding practitioners to address uncertainties directly. The book helps practitioners acquire a working knowledge of geotechnical risk and reliability methods and guides them to use these methods wisely in conjunction with data and numerical modeling. In particular, it provides guidance on the selection of realistic statistics and a cost-effective, accessible method to address different design objectives, and for different

problem settings, and illustrates the value of this to decision-making using realistic examples. Bringing together statistical characterization, reliability analysis, reliability-based design, probabilistic inverse analysis, and physical insights drawn from case studies, this reference guide from an international team of experts offers an excellent resource for state-of-the-practice uncertainty-informed geotechnical design for specialist practitioners and the research community.

Handbook of Research on Applied Artificial Intelligence and Robotics for Government Processes Springer Nature
This book systematically introduces the advancement of transparent soil modelling technique and its application. The transparent soil modelling technique provides an essential tool for visualizing soil-structure interaction and other geotechnical problems such as grouting, soil plugging. The geotechnical properties of the newest transparent soils were reported on model sand, clay and rock. In addition, more advanced image processing methods were summarized. In this book, numerous applications of transparent soil modelling techniques for

different geotechnical problems were presented, and the results obtained are supplemented by numerical calculation and theoretical analysis.

Handbook of the Sociology of the Military Walter de Gruyter GmbH & Co KG
This proceedings book covers a wide range of topics related to uncertainty analysis and its application in various fields of engineering and science. It explores uncertainties in numerical simulations for soil liquefaction potential, the toughness properties of construction materials, experimental tests on cyclic liquefaction potential, and the estimation of geotechnical engineering properties for aerogenerator foundation design. Additionally, the book delves into uncertainties in concrete compressive strength, bio-inspired shape optimization using isogeometric analysis, stochastic damping in rotordynamics, and the hygro-thermal properties of raw earth building materials. It also addresses dynamic analysis with uncertainties in structural parameters, reliability-based design optimization of steel frames, and calibration methods for models with dependent parameters. The book further

explores mechanical property characterization in 3D printing, stochastic analysis in computational simulations, probability distribution in branching processes, data assimilation in ocean circulation modeling, uncertainty quantification in climate prediction, and applications of uncertainty quantification in decision problems and disaster management. This comprehensive collection provides insights into the challenges and solutions related to uncertainty in various scientific and engineering contexts.

Computational Fluid Dynamics Frontiers Media SA

The creation of the Force Intervention Brigade (FIB) as the sharp tactical edge of the United Nations Stabilisation Mission in the Democratic Republic of the Congo (MONUSCO), tasked with the neutralising of armed groups, was a watershed moment in the history of modern peace missions. What was more significant was that sub-Saharan national leaders were instrumental in the creation of the FIB (South Africa, Tanzania and Malawi), but lacked the resources to deploy such a force and consequently the brigade was

deployed under the banner of the UN. With the legacy of an African Renaissance, and its role in the conception of the FIB, South Africa remains a critical player in international peace and security in sub-Saharan Africa, and therefore holds a key strategic role in achieving the FIBs objectives. This comes at a critical time where blue helmets are increasingly exposed to complex and challenging security contexts. The aim of this work is to provide a conceptual model for South African military future operations and UN offensive peacekeeping operations. In this undertaking, a layer of military and Clausewitzian theory is added to offensive peacekeeping operations. Furthermore, there are sections on operational constructs (capstone and operating concepts), doctrine and structural elements, as well a section on mine action. This book contributes towards an understanding of the nature of modern strategy through the lens of UN offensive peacekeeping operations and provides insights into operational challenges.

Spatial Modelling and Failure Analysis of Natural and Engineering Disasters through Data-based Methods Bentham

Science Publishers

In many regions around the world, the governance of migration increasingly involves local authorities and actors. This edited volume introduces theoretical contributions that, departing from the 'local turn' in migration studies, highlight the distinct role that legal processes, debates, and instruments play in driving this development. Drawing on historical and contemporary case studies, it demonstrates how paying closer analytical attention to legal questions reveals the inherent tensions and contradictions of migration governance. By investigating socio-legal phenomena such as sanctuary jurisdictions, it further explores how the law structures ongoing processes of (re)scaling in this domain. Beyond offering conceptual and empirical discussions of local migration governance, this volume also directly confronts the pressing normative questions that follow from the growing involvement of local authorities and actors. This title is also available as Open Access on Cambridge Core. *South Africa and United Nations Peacekeeping Offensive Operations* IGI Global

Williams traces the South West Africa People's Organization of Namibia across three decades in exile in Tanzania, Zambia, and Angola.

Optimized Genetic Programming Applications: Emerging Research and Opportunities Springer Nature
Data is more valuable than ever in the twenty-first century, and tremendous amounts of data are being generated every second. With a fast-growing information industry, engineers are required to develop new tools and techniques that increase human capabilities of mining useful knowledge from the vast amounts of data. Optimized Genetic Programming Applications: Emerging Research and Opportunities is an essential reference source that explores the concept of genetic programming and its role in managing engineering problems. It also examines genetic programming as a supervised machine learning technique, focusing on implementation and application. As a resource that details both the theoretical aspects and implementation of genetic programming, this book is a useful source for academicians, biological engineers,

computer programmers, scientists, researchers, and upper-level students seeking the latest research on genetic programming.

Sustainable Earth and Beyond Frontiers Media SA

The continued growth of any nation depends largely on the development of their built infrastructures and communities. By creating stable infrastructures, countries can more easily thrive in competitive international markets. Sustainable Infrastructure: Breakthroughs in Research and Practice examines sustainable development through the lens of transportation, waste management, land use planning, and governance. Highlighting a range of topics such as sustainable development, transportation planning, and regional and urban infrastructure planning, this publication is an ideal reference source for engineers, planners, government officials, developers, policymakers, legislators, researchers, academicians, and graduate-level students seeking current research on the latest trends in sustainable infrastructure.

Numerical Methods and Implementation in

Geotechnical Engineering – Part 1 IGI Global

This book highlights cutting-edge applications of machine learning techniques for disaster management by monitoring, analyzing, and forecasting hydro-meteorological variables. Predictive modelling is a consolidated discipline used to forewarn the possibility of natural hazards. In this book, experts from numerical weather forecast, meteorology, hydrology, engineering, agriculture, economics, and disaster policy-making contribute towards an interdisciplinary framework to construct potent models for hazard risk mitigation. The book will help advance the state of knowledge of artificial intelligence in decision systems to aid disaster management and policy-making. This book can be a useful reference for graduate student, academics, practicing scientists and professionals of disaster management, artificial intelligence, and environmental sciences.

Transparent Soil Modelling Technique and Its Application AFRICAN SUN MeDIA

Numerical Methods and Implementation in Geotechnical Engineering explains several

numerical methods that are used in geotechnical engineering. The first part of this reference set includes methods such as the finite element method, distinct element method, discontinuous deformation analysis, numerical manifold method, smoothed particle hydrodynamics method, material point method, plasticity method, limit equilibrium and limit analysis, plasticity, slope stability and foundation engineering, optimization analysis and reliability analysis. The authors have also presented different computer programs associated with the materials in this book which will be useful to students learning how to apply the models explained in the text into practical situations when designing structures in locations with specific soil and rock settings. This reference book set is a suitable textbook primer for civil engineering students as it provides a basic introduction to different numerical methods (classical and modern) in comprehensive readable volumes.

Contemporary Issues in South African Military Psychology Cambridge University Press

This book presents the latest advances in

the field of karst hydrogeology and carbonate reservoirs. These include, but are not limited to: geomorphology of karst; flow and solute transport in karst; innovative metrology; modelling; speleogenesis and geology of carbonate reservoirs; deep reservoir exploration and production; water management and protection in karst environments; contaminant migration and chemical behavior; hydrochemistry and regional aquifer studies. EuroKarst offers a platform for professional exchanges between field practitioners and academic researchers. It is the European biennial conference on the hydrogeology of karst and carbonate reservoirs. It is organized every two years by the Universities of Neuchâtel (Switzerland), Besançon (France), and Malaga (Spain).

Policing and Boundaries in a Violent Society Bentham Science Publishers

This is the first book to focus on the scope of social work practice within military settings from an international perspective, and therefore addresses what has been a significant gap in the literature. Given the critical support needs of military personnel and their families worldwide, and the

expanding role of social work in responding to these needs, this book offers a comprehensive global understanding of the common military social work (MiISW) practices with active duty military service members and their families, as well as the forms of practice and approaches that are unique, or potentially transferable across nations. Based on a systematic inquiry conducted by the Editors, there are at least 25 countries that have social workers working directly within their country's military in either a civilian or uniformed capacity, or both. This book includes contributions from experts in Australia, Canada, Denmark, Finland, Ireland, Israel, the Netherlands, New Zealand, South Africa, the UK, and the USA, who describe various aspects of the MiISW role within their country and the research that informs what military social workers do. The MiISW similarities and differences among these countries are highlighted, including developmental milestones, practice settings, practice orientation and approach, ethical dilemmas, military to veteran transition support, and past and current challenges. Experts from countries

that do not yet have MiISW but are interested in developing it (Japan, Ukraine) or are in the process of establishing this area of practice (Slovakia), also contribute chapters about these developments and the evidence base that supports this direction. *Military Social Work Around the Globe* is a valuable resource for social work programs and essential reading for instructors and students in MiISW electives and specializations. It is also pertinent reading for occupational social work and international social work courses. In addition, this book is an important source of information for military social workers who would like to gain insights into existing programs and the possibilities for international collaboration, and for countries interested in developing MiISW. *Machine Learning Applications in Civil Engineering* Springer

This book presents select proceedings of the Third International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE-2022). It covers state-of-the-art research on environmental geotechnology, sustainability, and use of recycled waste materials for civil

infrastructure along with latest accomplishments, trends, concerns, innovations, practical challenges encountered, and the solutions adopted in this field. Given the contents, this book is useful for researchers, engineers, and professionals working in the areas of geoenvironmental engineering, waste management, and sustainable engineering and associated fields.

[Iccws 2015 - The Proceedings of the 10th International Conference on Cyber Warfare and Security](#) Cambridge University Press
Artificial intelligence (AI) and robotics have boomed in the 21st century. These emerging and disruptive technologies are immersed in our lives, from apps in mobile devices, the purchases we make on the internet streaming platforms, and even court decisions and predictive policing. Together with science and certain needs, relevant implementations of AI and robotics arise, related to its transparency, resulting in biases, the kinds of applications that can be implemented, and the degree of workforce replacement in decision-making assistance. It is essential to analyze the widely used AI techniques, the application of these technologies in

different sectors, the implications of AI and robotics on society and welfare, and more. The Handbook of Research on Applied Artificial Intelligence and Robotics for Government Processes presents state-of-the-art research on AI and robotics in different fields of knowledge, its benefits, applications, and implications. It features chapters containing theoretical and practical research that analyzes the transparency and expandability of AI in different fields, as well as the analysis of unexpected results, biases, and cases of discrimination. Covering topics such as criminal intelligence, artificial intelligence-based chatbots, and gender violence, this major reference work is an excellent resource for government officials, practitioners in the public sector, business administrators and managers, IT professionals, law enforcement, federal agencies, students and faculty of higher education, researchers, and academicians. *Uncertainty, Modeling, and Decision Making in Geotechnics* Frontiers Media SA
This memorandum of law discusses and describes how government criminal identity theft occurs, how it is concealed and protected, how to prove it exists in a

court of law, and remedies to fight it.

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[Intelligent Data Analytics for Decision-Support Systems in Hazard Mitigation](#)
Springer Nature

This new edition of the volume is presented on the wave of the success which had its first edition (2003). It is entirely updated to the current situation of the disciplines covered, and expanded with particular regard to the new missions, that have become the main challenge for the armed forces in these first decades of the new millennium, with new insights to technological development toward so-called cyborg warriors, new forms of leadership and changes in soldier's identity and organisational culture. It is compiled of documents coming from various researchers at universities around the world as well as military officers devoted to the sector of study. Covered in this volume is a historical excursus of

studies prior to contemporary research, interpretive models and theoretical approaches developed specifically for this topic, civic-military relations including issues surrounding democratic control of the armed forces, military culture, professional training, conditions and problems of minorities in the armed forces, an examination of the structural change within the military over the years

including new duties and functions following the Cold War.

**Sustainable Infrastructure:
Breakthroughs in Research and
Practice** Springer Nature

These Proceedings are the work of researchers contributing to the 10th International Conference on Cyber Warfare and Security ICCWS 2015, co hosted this

year by the University of Venda and The Council for Scientific and Industrial Research. The conference is being held at the Kruger National Park, South Africa on the 24 25 March 2015. The Conference Chair is Dr Jannie Zaaiman from the University of Venda, South Africa, and the Programme Chair is Dr Louise Leenen from the Council for Scientific and Industrial Research, South Africa.