



Footprint South Africa

Subramanian Senthilkannan Muthu

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Footprint South Africa:

World Regional and Cultural Footprints and Environmental Sustainability Ebenezer O. Aka, 2017-04-26 The book examines the issues of sustainability in general It addresses various socioeconomic determinants of ecological footprints in different world s nations regions and cultures Major socioeconomic determinants of ecological footprints are fleshed out using Comparative Model Analysis and rigorous Multiple Regression Analysis The study exposes the inequitable distribution of the world s ecological footprints and also heightens the concern about ecological imbalances and overshoots It explains how sustainable development can be promoted and achieved in regional national and local jurisdictions The study provides information that will likely help various governments and policy makers determine if a given nation region or culture is on a sustainable path It helps government leaders planners policy makers and even students of sustainability make a difference in mitigating the effects of various environmental stressors If this book makes people and policy makers in different countries regions and cultures think globally but act locally then the objectives are well served **Human Footprints: Fossilised Locomotion?** Matthew R. Bennett, Sarita A. Morse, 2014-08-20 Human footprints provide some of the most emotive and tangible evidence of our ancestors They provide evidence of stature presence behaviour and in the case of early hominin footprints evidence with respect to the evolution of human gait and foot anatomy While human footprint sites are rare in the geological record the number of sites around the World has increased in recent years along with the analytical tools available for their study The aim of this book is to provide a definitive review of these recent developments with specific reference to the increased availability of three dimensional digital elevation models of human tracks at many key sites The book is divided into eight chapters Following an introduction the second chapter reviews modern field methods in human ichnology focusing on the development of new analytical tools The third chapter then reviews the major footprint sites around the World including details on several unpublished examples Chapters then follow on the role of geology in the formation and preservation of tracks on the inferences that can be made from human tracks and the final chapter explores the application of this work to forensic science Audience This volume will be of interest to researchers and students across a wide range of disciplines sedimentology archaeology forensics and palaeoanthropology **Progress in Water Footprint Assessment** Arjen Y. Hoekstra, Ashok K. Chapagain, Pieter Van Oel, 2019-06-24 Water Footprint Assessment is a young research field that considers how freshwater use scarcity and pollution relate to consumption production and trade patterns This book presents a wide range of studies within this new field It is argued that collective and coordinated action at different scale levels and along all stages of commodity supply chains is necessary to bring about more sustainable efficient and equitable water use The presented studies range from farm to catchment and country level and show how different actors along the supply chain of final commodities can contribute to more sustainable water use in the chain **Security of Industrial Water Supply and Management** Aysel T. Atimtay, Subhas K. Sikdar, 2011-08-30 Over time the increased use of fresh water for agriculture and

industry together with contamination from discharges of pollutants mean that ever more areas of the planet are becoming water stressed. Because of the competing needs of communities and industry for fresh water, industry will be challenged to meet its growing demands for water which is essential for producing the goods and services that would boost human welfare. Thus, industry will need to learn how to cost effectively purify and recycle its wastewater for reuse, ultimately approaching a net zero discharge condition. The chapters in this book, written by international experts, treat the technical issues of such treatment and water management and also provide guidance on technologies either existing or in development that can potentially achieve the goal of recycle/reuse. The book will serve as a useful reference for academics, government and industry professionals alike.

Glances at Renewable and Sustainable Energy Till Jenssen, 2013-06-24. Differing interpretations, perspectives and expectations on the term sustainability exist. To take sustainability as an action guiding mandate for implementation, it needs to be concrete and measurable as well; it should weigh pros and cons. But how can such an integrated measurement in the field of renewable energy be conducted, balancing the trade-offs between opposing indicators? *Glances at Renewable and Sustainable Energy* provides a thorough overview on the generic principles of sustainability assessment, including projective thresholding and systemic principles, and summarizes five common approaches for a holistic measurement. Approaches such as multi-criteria decision analysis, ecological footprint analysis, and normative functional concepts are applied to different case studies in developed, emerging and developing countries to cover a wide bandwidth of various renewable energy carriers under various conditions. Each case study includes 2 boxes illustrating the scheme behind the approach and exemplary calculations to allow a systematic comparison and a critical reflection of the methods applied. Compiling results on renewable energy assessment of the last decades, *Glances at Renewable and Sustainable Energy* gives researchers, students, consultants, politicians and entrepreneurs the tools to advance their practical and instructional knowledge on sustainability and sustainability measurement, to reflect their decisions and tools for analysis, and to transfer this knowledge into problem solving.

Vertebrate Ichnology Spencer G. Lucas, Adrian Hunt, P. Hendrik Klein, 2025-08-25. *Vertebrate Ichnology: Fish Ichnology, Consumption, Burrows and Reproduction*. Geoconservation is a comprehensive and meticulously researched review and analysis of the entire vertebrate trace fossil record, shedding light on lesser known vertebrate traces beyond footprints. From vertebrate burrows to the ichnology of reproduction, each chapter provides valuable insights and up-to-date information. The book explores a wide range of topics, including consumption through coprolites, dentalites, regurgitalites, and other trace fossils that are evidence of vertebrate predation and consumption. This authoritative reference provides students, researchers and professionals in the field of Earth and Planetary sciences with updated information on the geological heritage of vertebrate ichnosites and their importance in geoconservation efforts. It explores diverse aspects of vertebrate ichnology, including fish imprints, gregarious behavior evidence, and detailed analyses of vertebrate consumption through various trace fossils. Provides comprehensive coverage of vertebrate burrows, the

ichnology of reproduction and the geological heritage of vertebrate ichnosites Written by leading experts in vertebrate trace fossils ensuring an authoritative and up to date reference for researchers academics and professionals in the field Includes over 100 detailed and striking figures The Green State in Africa Carl Death,2016-09-27 A provocative reassessment of the relationship between states and environmental politics in Africa From climate related risks such as crop failure and famine to longer term concerns about sustainable urbanization environmental justice and biodiversity conservation African states face a range of environmental issues As Carl Death demonstrates the ways in which they are addressing them have important political ramifications and challenge current understandings of green politics Death draws on almost a decade of research to reveal how central African environmental politics are to the transformation of African states *Water Footprints and Sustainable Development* Suhaib A. Bandh,Fayaz A. Malla,2024-08-09 Water Footprints and Sustainable Development serves as the sole comprehensive volume of the role of waste management for sustainable development It provides an overview of Global Scenario of water footprints in water smart cities and technologies and investigates the critical factors that enable the sustainable developments of various industries in respect to water resources management The goal of this book is to introduce the reader to the current technologies used for reducing water footprints and to offer the necessary information and tools for sustainable development Provides detailed coverage of the role of Water Energy and Food Nexus with respect to sustainability Covers methods such as lifecycle assessment sustainability assessment multi criteria decision making and multi objective optimization modes Includes key techniques for water resources management and sustainable development
THE TRIASSIC TETRAPOD FOOTPRINT RECORD HENDRIK KLEIN,SPENCER G. LUCAS,2021-04-16 *Water Security* The World Economic Forum Water Initiative,2012-02-24 The world is on the brink of the greatest crisis it has ever faced a spiraling lack of fresh water Groundwater is drying up even as water demands for food production for energy and for manufacturing are surging Water is already emerging as a headline geopolitical issue and worsening water security will soon have dire consequences in many parts of the global economic system Directed by UN Secretary General Ban Ki Moon at the 2008 Davos Annual Meeting the World Economic Forum assembled the world s foremost group of public private non governmental organization and academic experts to examine the water crisis issue from all perspectives The result of their work is this forecast a stark non technical overview of where we will be by 2025 if we take a business as usual approach to mis managing our water resources The findings are shocking Perhaps equally stunning are the potential solutions and the recommendations that the group presents All are included in this landmark publication Water Security contains compelling commentary from leading decision makers past and present The commentary is supported by analysis from leading academics of how the world economy will be affected if world leaders cannot agree on solutions The book suggests how business and politics need to manage the energy food water climate axis as leaders negotiate the details of the climate regime that replace Kyoto Protocols **The Social Footprints of Global Trade** Ali Alsamawi,Darian McBain,Joy

Murray, Manfred Lenzen, Kirsten S. Wiebe, 2017-04-09 This book discussing in detail the Social Life Cycle Assessment SLCA of the global economy using the comprehensive Multi Regional Input Output MRIO technique The content is presented in two parts the first of which offers an introduction to social accounting and how it has been developed over the past few years with details on the methodologies and databases used The second part of the book describes the footprints of the social accounts that have the highest impact on people s well being employment income working conditions and inequality and how they are linked to international trade The need for reporting on such indicators falls within the purview of corporate national social responsibility part of the Triple Bottom Line The book offers a valuable contribution to the literature for researchers and students engaged in the social sciences human rights and the implications of international trade on labour in developing countries iv Environmental Water Footprints Subramanian Senthilkannan Muthu, 2018-08-29 This book discusses the concept of water footprint and corporate water footprint presenting case studies on a thermal power plant in India and on the food sector Water conservation is a key element of industrial sustainability strategies

Building Climate Resilience through Virtual Water and Nexus Thinking in the Southern African Development Community Anna

Entholzner, Charles Reeve, 2016-05-23 This book puts the spotlight on Southern Africa presenting a cutting edge concept never previously explored in the context of climate change and putting forward arguments for regional integration and cooperation The Climate Resilient Infrastructure Development Facility CRIDF is the new water infrastructure program of the UK Department for International Development DFID for Southern Africa The CRIDF promotes the establishment of small to medium scale infrastructure across the Southern African Development Community SADC through technical assistance aimed at developing sustainable pro poor projects while also facilitating access to the financial resources needed to deliver said infrastructure Further it focuses on regional water resource management goals and basin plans as well as on building climate resilience for the beneficiary communities The Facility s Virtual Water and Nexus Project works to improve regional peace dividends by translating the Nexus concept into national and regional policies it ultimately promotes sovereign security through greater regional integration across the water food and energy sectors while taking into account potential benefits in connection with carbon sequestration and emission mitigation **Chirotheres** Hendrik Klein, Andrew B.

Heckert, 2023-07-25 Comprehensive in detail and worldwide in scope Chirotheres is the definitive compendium of what is known about the five toed footprints of Triassic archosaurs ancestors of the crocodiles Sandstone slabs with extensive trackways have been known for almost two centuries and are highlights in museum exhibits around the globe These trackways provide direct insight into the locomotion and behavior of the fascinating reptiles that made these tracks and together with known skeletons they allow a richer reconstruction of chirothere lifestyle than is possible from bones alone Written by expert researchers in the fields of vertebrate ichnology vertebrate paleontology and scientific illustration Chirotheres explores the various facets of chirothere research including the history of their study footprint formation and

preservation the bone record the environment and lifestyle of chirotheres and finally their disappearance at the end of the Triassic Chirotheres also features a global compendium of track collections with chirothere material including specimen numbers detailed phylogenetic definitions of track makers and extensive measurements from key chirothere tracks and trackways It represents an invaluable resource of anyone interested in these ancient animals

Customer Service Supply Chain Management Alexandre Oliveira, Anne Gimeno, 2014-06-17

DRIVE MORE VALUE FROM YOUR SUPPLY CHAIN BY IMPROVING THE WAY YOU MANAGE CUSTOMER SERVICE Optimize linked interactions across your entire customer service environment Implement customer centric strategies including customer based supply chain segmentation and lifelong customer logistics management Use the business driven customer service model to align customer services management to business goals and measure your progress

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Customer Service Supply Chain Management offers a complete model and blueprint for achieving these goals Global supply chain innovators Alexandre Oliveira and Anne Gimeno show how to systematically address key issues ranging from organizational structure governance and strategy to day to day tactics and operations Oliveira and Gimeno help you assess where you stand now identify gaps and priorities and move rapidly towards greater effectiveness They introduce realistic examples applications and best practices all designed to help you translate theory into practice and practice into profits

USE CUSTOMER SERVICE SUPPLY CHAIN MANAGEMENT TO GROW SALES VOLUME Increase market share Accelerate revenue cycles Reduce lost sales Support marketing and sales initiatives **IMPROVE CUSTOMER EXPERIENCE** Add customer value Optimize cost to serve Deliver the right service at the right cost **GROW MARGINS** Reduce cost of sales Improve asset management Balance service levels and cost structures

Tourism Policy-Making in the Context of Contested Wicked Problems Christof Pforr, Markus Pillmayer, Marion Joppe, Nicolai Scherle, Harald Pechlaner, 2024-08-15 This volume offers insights into pathways towards tourism sustainability analysing current problem solving capabilities and competences of governments to deal with specific tourism policy issues or wicked problems such as the climate emergency tourism mobility indigenous disadvantages the COVID 19 pandemic or the

P2P economy Cenozoic Vertebrate Tracks and Traces Spencer G. Lucas, Justin A. Spielmann, Martin G. Lockley, 2007

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prominent in the wider field of SI thinking The contributions in this handbook clearly set out the theoretical background and history of SIs their origins roots and initial goals expand on the disciplines and modalities employed to develop SIs of various kinds assess the various ways in which SI data are gathered and the availability over space and time and quality issues that surround them explore the multiplex world of SIs as expressed in agencies around the world via examples of SI practice and the lessons that have emerged from them critically review the progress that SIs have made over the last 30 years express the divergence of views which are held about the value of SIs including differing theories on their efficacy efficiency and ethics explore the frontier of contemporary SI thinking reviewing ante post and systemic alternatives This multidisciplinary and international handbook will be of great interest to researchers students and practitioners working in sustainability research and practice

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