

The Dynamic Earth Chapter Nexus

The impact of the changing climate on natural resources is among the greatest challenges that currently threaten Earth. This textbook focuses on the basic scientific principles of climate change that may be used to help develop long-term strategies to cope with the resulting broader environmental, societal, and economic impacts. Using a multidisciplinary approach, the book combines the principles of changing climate with specialized fields of the Water-Energy-Food-Health (WEFH) Nexus to examine how the Earth operates as an integrated system. It can be used at introduction-level courses in high school, undergraduate, and graduate programs, or as a scientific reference book. It will prepare students for future challenges regarding the climate and expose them to opportunities to meet these challenges.

The progress of broadband ICT is having a big impact on individual lifestyles and corporate activities. For corporate strategy, broadband use goes beyond improving management efficiency by contributing to enhancing customer services and developing new markets. In addition, the shape of corporate organizations and their behavior is changing along with recent changes in the business environment and development of broadband networks. It will become increasingly important for future business strategies to go beyond resources limited by business units within conventional corporate organizations to take positive initiatives with knowledge and competences outside the company as well as with the dynamic use of ICT, through such means as external strategic alliances, virtual corporations, mergers and acquisitions, and outsourcing. This book describes that the full utilization of ICT based on fixed and mobile wireless broadband communication platforms supports managerial speed and excellence, while making it possible to formulate new business models. Chapter 1 describes business process innovations and new e-business that activates the concepts and technology of video-based information networks (VIN) based on the leading broadband and wireless technologies of multimedia communication networks. Dynamic activities with VIN as a future network strategy support tool will enable business innovation through strengthening corporate competitiveness and enhancing customer services. Chapter 2 considers theoretical frameworks related to "ICT dynamic capability" for companies that have employed ICT. "ICT dynamic capability" comprises the three elements of context architecture, boundaries consolidation, and ICT application capabilities, and is discussed from the viewpoint of the new knowledge creation process. The interaction among actors' dynamic use of VIN tools and the community knowledge creating cycle simultaneously enhances knowledge effectiveness and creativity. Chapter 3 goes on to consider the decision-making process that introduced and activated VIN tools within the company, aimed at the acquisition of ICT dynamic capability, from the perspective of a strategy-making process. Chapter 4 demonstrates community management frameworks exploiting VIN in the company through in-depth case study. The top-down approach through the innovative leadership of community leaders who comprehensively manage the business community spread within and outside the company will enable the dynamic use of ICT by community members. In chapter 5, looking at the creation of business linking industry and academia, the author considers cases of VIN development through a bottom-up approach involving members in the strategic community, and shows analysis from the viewpoint of ICT dynamic capability created from dynamic interaction of context and knowledge with customers who have crossed the organizational boundaries among industries. In Chapter 6, through emergent strategies for small and medium-sized companies, the book justifies new knowledge in-house after its creation from a trial-and-error process using a bottom-up approach, and the author looks at the feelings and behaviour of actors undertaking to improve in-house productivity and customer services as a strategy for the entire company. In Chapter 7, the author takes up a case study of Sony, and looks at an example of VIN tools adoption by means of Sony's deliberate strategy using a top-down approach. Moreover, learning from Sony's trial & error method, the author considers the process of a successful VIN adoption from a bottom-up approach through emergent strategies centered on worksite organization. In Chapter 8 the author considers successful case studies of VIN adoption by large companies. The author considers the processes that productively resolve internally generated friction and conflict and transform corporate culture through the use of both top-down and bottom-up approaches. Finally, in Chapter 9, the book provides new insights derived from the case studies and theoretical and managerial implications related to new knowledge creation by ICT dynamic capability. Bridging theory and practice and providing international scope, this book will be invaluable to academics and students with an interest in business, management, ICT, and to managers in high-tech industries.

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Explores James's concept of the individual in terms of physiology, psychology, philosophy, and religion. Water-Energy-Food Nexus Narratives and Resource Security: A Global South Perspective provides a knowledge synthesis on the water/energy/food (WEF) nexus, focusing primarily on the global south. By presenting concepts, analytical tools, and case studies, the book serves as a practical resource for researchers, policymakers, and practitioners in sustainability and functional roles across all three sectors. It addresses key issues related to data availability, tools, indices, metrics, and application across multiple scales, beginning with a summary of existing knowledge. Finally, it examines the WEF nexus, presents global insights, and discusses future considerations and implications. This book presents an overview of existing knowledge on the WEF nexus and examines how such research aligns with emerging global WEF nexus perspectives, making it ideal for professionals, government entities, private industry, and the general public.
● Offers a conceptual framework on how to better understand the water/energy/food (WEF) nexus and its utility in natural resource management and sustainable development
● Presents advanced analytical tools for the quantification of linkages, trade-offs, and synergies among WEF sectors
● Utilizes global case studies to illustrate complexities across disciplines, geographies, and scales

Marginality

A Decadal Strategy for Earth Observation from Space

Concept and Assessments

Architecture and Mathematics

New Knowledge Creation Through ICT Dynamic Capability

Addressing the Nexus of Poverty, Exclusion and Ecology

Monopoly of Force

1999

Using Isotopes as a tool for understanding Earth processes From establishing the absolute age of the Earth to providing a stronger understanding of the nexus between geology and life, the careful measurement and quantitative interpretation of minor variations in the isotopic composition of Earth's materials has provided profound insight into the origins and workings of our planet. Isotopic Constraints on Earth System Processes presents examples of the application of numerous different isotope systems to address a wide range of topical problems in Earth system science. Volume highlights include: examination of the natural fractionation of non-traditional stable isotopes utilizing isotopes to understand the origin of magmas and evolution of volcanic systems application of isotopes to interrogate and understand Earth's Carbon and Oxygen cycles examination of the geochemical and hydrologic processes that lead to isotopic fractionation application of isotopic reactive transport models to decipher hydrologic and biogeochemical processes The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals. Millenniums through the ages have looked forward to the apocalyptic moment that will radically transform society into heaven on Earth. Here, Landes offers a lucid and ground-breaking analysis of this widely misunderstood phenomenon.

"A lucid, original, and useful work by a fine scholar already well known in the emerging field of environmental philosophy."—David Abram, University of Kansas

A Multicultural Survey of Ecological Ethics from the Mediterranean Basin to the Australian Outback

A Very Short Introduction

Nexus

Aglauros, Erechtheus, Plynteria, Panathenaia, Dionysia

Water-Energy-Food Nexus

Drug Use in Prisoners

A Research Agenda for Indoor Microbiology, Human Health, and Buildings

Our oceans are hugely important, as a source of food and mineral wealth, as an environment for a vast variety of wildlife, for the role they play in climate regulation, and as part of the biogeochemical cycles of carbon, nitrogen, and other elements critical to life. Dorrik Stow explores what we know about how oceans originate and are maintained.

In this book, leading experts present research on the evolution of key issues in Asian security.

People's desire to understand the environments in which they live is a natural one. People spend most of their time in spaces and structures designed, built, and managed by humans, and it is estimated that people in developed countries now spend 90 percent of their lives indoors. As people move from homes to workplaces, traveling in cars and on transit systems, microorganisms are continually with and around them. The associated microbes that are shed, along with the human behaviors that affect their transport and removal, make significant contributions to the diversity of the indoor microbiome. The characteristics of "healthy" indoor environments cannot yet be defined, nor do microbial, clinical, and building researchers yet understand how to modify features of indoor environments such as building ventilation systems and the chemistry of building materials to ways that would have predictable impacts on microbial communities to promote health and prevent disease. The factors that affect the environments within buildings, the ways in which building characteristics influence the composition and function of indoor microbial communities, and the ways in which these microbial communities relate to human health and well-being are extraordinarily complex and can be explored only as a dynamic, interconnected ecosystem by engaging the fields of microbial biology and ecology, chemistry, building science, and human physiology. This report reviews what is known about the intersection of these disciplines, and how new tools may facilitate advances in understanding the ecosystem of built environments, indoor microbiomes, and effects on human health and well-being. It offers a research agenda to generate the information needed so that stakeholders with an interest in understanding the impacts of built environments will be able to make more informed decisions.

Over the past thirty years the Australian travel experience has been 'Aboriginalized'. Aboriginality has been appropriated to furnish the Australian nation with a unique and identifiable tourist brand. This is deeply ironic given the realities of life for many Aboriginal people in Australian society. On the one hand, Aboriginality in the form of artworks, literature, performances, landscapes, sport, and famous individuals is celebrated for the way it blends exoticism, mysticism, multiculturalism, nationalism, and reconciliation. On the other hand, in the media, cinema, and travel writing, Aboriginality in the form of the lived experiences of Aboriginal people has been exploited in the service of moral panic, patronized in the name of white benevolence, or simply ignored. For many travel writers, this irony - the clash between different regimes of valuing Aboriginality - is one of the most challenging aspects of travelling in Australia. Travel Writing from Black Australia examines the ambivalence of contemporary travelers' engagements with Aboriginality. Concentrating on a period marked by the rise of discourses on Aboriginality championing indigenous empowerment, self-determination, and reconciliation, the author analyses how travel to Black Australia has become, for many travelers, a means of discovering

'new' —and potentially transformative—styles of interracial engagement.

Challenges and Opportunities in the Hydrologic Sciences Advances in Databases and Information Systems Cumulative List of Organizations Described in Section 170 (c) of the Internal Revenue Code of 1954 Epidemiology, Implications, and Policy Responses Objects and Affect in Aeschylus, Sophocles, and Euripides Utopia, Melancholia, and Aboriginality A Global South Perspective

An accessible synthesis of a decade of multidisciplinary research into how diverse actors exercise authority in environmental decision making.

The book's primary intention is to serve as a roadmap for professionals working in developing countries interested in the Nexus Water-Energy-Food-Ecosystems (WEFE) approach. The book shows a multi-disciplinary approach, showcasing the importance of the proper use of Nexus WEFE when implementing certain development programs in regions around the globe. It can be presented as a manual for an individual that either wishes to implement intervention projects following the NEXUS approach or students interested in cooperation and development. The book begins with a general explanation of the theoretical concepts and implementation processes of Nexus WEFE and continues getting into case studies, explaining the importance of proper implementation and potential drawbacks and solutions to them. This book has a particular focus on the European Union cooperation policies when implementing such an approach in developing countries.

This book explores an exciting range of creative engagements with ecologies of place, using geopoetics, deep mapping and slow residency to propose broadly based collaborations in a form of 'disciplinary agnosticism'. Providing a radical alternative to current notions of interdisciplinarity, this book demonstrates the breadth of new creative approaches and attitudes that now challenge assumptions of what is possible with the ecological and the social. Through examples of specific established practices in the UK, Australia and the USA, and other emergent practices from across the world, it provides the reader with a rich illustration of the ways in which ensemble creative undertakings are reactivating art's relationship with place and transforming the role of the artist. This book will be of interest to artists, art educators, environmental activists, cultural geographers, place-based philosophers and postgraduate students and to all those concerned with the revival of place through creative work in the twenty-first century.

Climate change is a critical issue for heritage studies. Sites, objects and ways of life all are coming under threat, requiring alternative management, or requiring specific climate change adaptation. Heritage is key to interpreting the societal significance of climate change; notions (and images) of the past are crucial to our understanding of the present, and are used to prompt actions that help society define and achieve a specific and desired future. Relatively little attention has been paid to the critical intersections between heritage and climate change. The Future of Heritage as Climates Change frames the intellectual context within which heritage and climate change can be examined, presenting cases and sub-fields in which the heritage-climate change nexus is being examined and provides synthetic analyses through five overarching themes: The heritage of change among coastal communities: liminality and the politics of engagement Dwelling materials: processes and possibilities; Environmental heritage: meanings of the past – prospects for the future; Blurring the boundaries of nature and culture: the politics of anticipation; Climate change and heritage practice: adaptation and resilience. The Future of Heritage as Climates Change provides scholars, managers, policy makers and students with a much needed examination of heritage and climate change to help make critical decisions in the next several decades.

The Nexus of DDR and SSR

Tone-System, Mode, and Notation in Early Medieval Music

The Materialities of Greek Tragedy

Institutional Complexity and Structural Transformation

Creative Engagements with Ecologies of Place

Athenian Myths and Festivals

The Land-Water-Energy Nexus

Water, Energy and Food are the very basic necessities of human life and all the three of them are interconnected with each other, this connection being called the Water-Energy-Food nexus. Water is an inevitable element to energy and food systems to work. Water is essential for the growth of crops and produce energy and it consumes water. Food and energy are equally dependent upon each other as well. This book highlights with various examples and case studies from around the World, the importance of this concept.

An authoritative analysis of [a decade of] research on institutional architectures in earth system governance, covering key elements, structures and policy options. This report contributes to the discussion of interconnections between scarce resources by highlighting the nexus between land, water and energy (the LWE nexus). It focuses on a dynamic, integrated, and disaggregated analysis of how land, water and energy interact in the biophysical and economic systems. The report provides projection economic consequences of nexus bottlenecks until 2060, highlighting that while the LWE nexus is essentially local, there can be significant large-scale repercussions in vulnerable regions, notably on forest cover and in terms of food and water security. The analysis is based on coupling a gridded biophysical systems model with a multi-regional general equilibrium modelling assessment. Numerical insights are provided by investigating a carefully selected set of scenarios that are designed to illustrate the key bottlenecks: one scenario for each resource bottleneck, plus two scenarios that combine all bottlenecks, with and without an overlay of climate change.

This book takes a new approach on understanding causes of extreme poverty and promising actions to address it. Its focus is on marginality being a root cause of poverty and deprivation. "Marginality" is the position of people on the edge, preventing their access to resources, freedom of choices, and the development of capabilities. The book contains original empirical analyses at local, national, and local scales; book contributors are leaders in their fields and have backgrounds in different disciplines. An important message of the book is that economic and ecological approaches and institutional innovations need to be integrated to overcome marginality. The book will be a valuable source of information for students and students, actors that design public policies, and for social innovators in the private sector and non-governmental organizations.?

Biophysical and Economic Consequences

Food, water, energy nexus. Volume 2 - Net-Zero High-Rises

Crunch design research

Principles and Practices

13th East European Conference, ADBIS 2009, Riga, Latvia, September 7-10, 2009, Proceedings

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Situated within contemporary posthumanism, this volume offers theoretical and practical approaches to materiality in Greek tragedy. Established and emerging scholars explore how works of the three major Greek tragedians problematize objects and affect, providing fresh readings of some of the masterpieces of Aeschylus, Sophocles, and Euripides. The so-called new materialisms have complemented the study of objects as signifiers or symbols with an interest in their agency and vitality, their sensuous force and psychosomatic impact and conversely their resistance and irreducible aloneness. At the same time, emotion has been recast as material "affect"; an intense flow of energies between bodies, animate and inanimate. Powerfully contributing to the current critical debate on materiality, the essays collected here destabilize established interpretations, suggesting alternative approaches and pointing toward a newly robust sense of the physicality of Greek tragedy.

Return to the high-stakes, riveting world of The Andromeda Saga in this dazzling finale from #1 New York Times bestselling authors Sasha Aliberg and Lindsay Cummings. With her crew captured and her ship a smoldering ruin, notorious mercenary Andromeda Raecella is no longer the powerful Bloody Baroness, but a fugitive on the run. And with most of the galaxy now trapped under the mind control of the bloodthirsty Queen Nor, not even the farthest reaches of Mirabel can offer safety for the queen's most hated adversary. But Andil will risk anything to save her friends, to see her New Yorks freedom, to save her life. So when she finds herself stranded with bounty hunter Dextro Arzez on the unforgiving ice planet of Sotera, Andil seeks out the mysterious Arachnid, the one person who seems to be fighting back against the vicious queen/and uncovers the true, devastating reason for Nor's takeover. Back on Andil's home planet of Arcadius, Nor's actions have made Mirabel vulnerable to invasion from an outside force. Now allying with her mortal enemy may be the only way for the Bloody Baroness to save the galaxy/even if that alliance demands the most wrenching sacrifice of all.

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Return to the high-stakes, riveting world of The Andromeda Saga in this dazzling finale from #1 New York Times bestselling authors Sasha Aliberg and Lindsay Cummings. With her crew captured and her ship a smoldering ruin, notorious mercenary Andromeda Raecella is no longer the powerful Bloody Baroness, but a fugitive on the run. And with most of the galaxy now trapped under the mind control of the bloodthirsty Queen Nor, not even the farthest reaches of Mirabel can offer safety for the queen's most hated adversary. But Andil will risk anything to save her friends, to see her New Yorks freedom, to save her life. So when she finds herself stranded with bounty hunter Dextro Arzez on the unforgiving ice planet of Sotera, Andil seeks out the mysterious Arachnid, the one person who seems to be fighting back against the vicious queen/and uncovers the true, devastating reason for Nor's takeover. Back on Andil's home planet of Arcadius, Nor's actions have made Mirabel vulnerable to invasion from an outside force. Now allying with her mortal enemy may be the only way for the Bloody Baroness to save the galaxy/even if that alliance demands the most wrenching sacrifice of all.

This report contributes to the discussion of interconnections between scarce resources by highlighting the nexus between land, water and energy (the LWE nexus). It focuses on a dynamic, integrated, and disaggregated analysis of how land, water and energy interact in the biophysical and economic systems. The report provides projection economic consequences of nexus bottlenecks until 2060, highlighting that while the LWE nexus is essentially local, there can be significant large-scale repercussions in vulnerable regions, notably on forest cover and in terms of food and water security. The analysis is based on coupling a gridded biophysical systems model with a multi-regional general equilibrium modelling assessment. Numerical insights are provided by investigating a carefully selected set of scenarios that are designed to illustrate the key bottlenecks: one scenario for each resource bottleneck, plus two scenarios that combine all bottlenecks, with and without an overlay of climate change.

This book takes a new approach on understanding causes of extreme poverty and promising actions to address it. Its focus is on marginality being a root cause of poverty and deprivation. "Marginality" is the position of people on the edge, preventing their access to resources, freedom of choices, and the development of capabilities. The book contains original empirical analyses at local, national, and local scales; book contributors are leaders in their fields and have backgrounds in different disciplines. An important message of the book is that economic and ecological approaches and institutional innovations need to be integrated to overcome marginality. The book will be a valuable source of information for students and students, actors that design public policies, and for social innovators in the private sector and non-governmental organizations.?

Biophysical and Economic Consequences

Food, water, energy nexus. Volume 2 - Net-Zero High-Rises

Crunch design research

Principles and Practices

13th East European Conference, ADBIS 2009, Riga, Latvia, September 7-10, 2009, Proceedings

Implementing the Water-Energy-Food- Ecosystems Nexus and Achieving the Sustainable Development Goals

The Future of Heritage as Climates Change

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