

Physical Sciences 14 March 2014 Question Paper

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 Cultural Landscape Management at Borobudur, Indonesia
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GREGORY PIPER

The Logic, Urgency, and Promise of Tackling Climate Change Oxford University Press

Informed by international relations theories and critical of the prevailing UN approach, Kirton and Kokotsis trace the global governance of climate change from its 1970s origins to the present and demonstrate the effectiveness of the plurilateral summit alternative grounded in the G7/8 and the G20. This topical book synthesizes a rich array of empirical data, including new interview and documentary material about G7/8 and G20 governance of climate change, and makes a valuable contribution to understanding the dynamics of governing climate change.

Cultural Landscape Management at Borobudur, Indonesia Taylor & Francis

In less than a decade, activism against the fossil fuel industry has exploded across the globe. While environmentalists used to focus on legislative goals, such as carbon emissions trading or renewable energy policies, today the most prominent activists directly attack the fossil fuel industry. This timely book offers a comprehensive evaluation of different types of activism, the success and impact of campaigns and activities, and suggestions as to ways forward. This book is the first systematic treatment of the anti-fossil fuel movement in the United States. An accessible and readable text, it is an essential reference for scholars, policymakers, activists, and citizens interested in climate change, fossil fuels, and environmental sustainability.

The entire book or chapters from it can be used as required or supplementary material in various courses at the undergraduate and graduate level. As the book is not technically challenging but contains a comprehensive review of climate change, fossil fuels, and the literature on environmental activism, it can be used as an accessible introduction to the anti-fossil fuel campaign across disciplines.

Becoming a Sports Coach MDPI

This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of

[Virus Ecology and Disturbances: Impact of Environmental Disruption on the Viruses of Microorganisms](#) Springer

The Democratic Republic of Congo (DRC) has been called the 'worst place in the world' for women, with reports of widespread and horrific incidents of rape and sexual violence and almost complete impunity for the perpetrators of such violence. However, despite the high profile media reporting on sexual violence in the DRC, and the widely publicized responses of the international community, there is still very little real analysis of the real situation of women in the country. This book provides such detailed analysis of gender relations in the DRC, and goes beyond the usual explanations of sexual violence as a product of conflict, to examine the complex and socially constructed gender norms and roles which underlie incidences of violence. The book benefits from a comprehensive account of men's and women's roles in conflict, violence, peace building and reconstruction, and

evaluates the impacts of national and international political responses. In doing so, this book provides valuable new evidence and analysis of the complex and multilayered conflicts in the DRC.

[From Theory to Practice](#) John Wiley & Sons

Humanity has extensively exploited natural and physical resources, since the Industrial Revolution in Europe. A geological era, now called the Anthropocene, has been coined in environmental and developmental circles, to mark the increased domination of humanity on Earth and its resources. Today, the ecological footprint on the fragile planet continues to increase. Mass industrialisation, like what China is doing and pushing for, is one of the drivers for increased urbanisation that results in increased demand for land. It is also the stimulus behind increased deforestation, overfishing, and pollution. As the fragility of the Earth increases, global bodies like the Intergovernmental Panel on Climate Change are pushing to reduce the Earth's temperature. Human efforts to manage the problem cascade from a global to a regional, to a national, as well as to much localised scales. Missing though are nuanced contributions at national and community levels, which this book is an attempt to bridge. The nagging sense of responsibility is what this book explores under the label of "sustainability ethic". As a case study, the book examines the use of sustainability ethic in the management of the physical, infrastructural and natural resources of Zimbabwe. This ethic is built on pillars that include participation of people (households) in their pursuit for sustainable livelihoods, appropriate technology, tools and techniques for environmental protection. It also hinges on stewardship and structures, institutions, policies and processes of governance and sustainability. There are also the aspects of ethics, laws and indigenous technical knowledge for sustainability, capacity building and education plans and programmes for sustainability and population and demographic determinants, processes and outcomes for sustainability. The book is a timely contribution to an urgent global concern and climate change debate.

[IAENG Transactions on Engineering Sciences](#) Bellevue Literary Press

Quantum-enhanced machine learning refers to quantum algorithms that solve tasks in machine learning, thereby improving a classical machine learning method. Such algorithms typically require one to encode the given classical dataset into a quantum computer, so as to make it accessible for quantum information processing. After this, quantum information processing routines can be applied and the result of the quantum computation is read out by measuring the quantum system. While many proposals of quantum machine learning algorithms are still purely theoretical and require a full-scale universal quantum computer to be tested, others have been implemented on small-scale or special purpose quantum devices.

[The Sustainability Ethic in the Management of the Physical, Infrastructural and Natural Resources of Zimbabwe](#) Routledge

A 'coach' is more than just somebody who leads in the organisation and delivery of structured sport. The role of a coach goes beyond leadership, requiring an understanding of theories of teaching and learning. To become a coach you must know how people learn. Becoming a Sports Coach aims to introduce the multi-dimensional and inter-locking knowledge bases that any aspiring coach will need to develop, and that any established coach needs to master in order to improve their professional practice. While traditional coach education pathways have focused on what to coach, this book argues that understanding how knowledge can be communicated to learners is just as important. Asking why we coach, through critical reflection and self-knowledge, is also an essential part of the process of becoming a sports coach. The book explores three types of knowledge – content knowledge, pedagogic knowledge and self-knowledge – challenging the reader to reflect on their own coaching experiences and to develop a personal philosophy of coaching. It explores key pedagogic themes in contemporary coaching studies, such as humanistic coaching, inclusive practice, coaching for understanding, and the athlete-coach relationship. Real case studies are used to illuminate the ways – transferrable across sports – in which coaches can apply theory to practice and ultimately enhance their work. With contributions from leading coaching researchers and practitioners, combining practical guidance with important theoretical insights, this book will help any coaching student or developing professional to better understand the journey to becoming an effective sports coach.

[Routledge International Handbook of the Sociology of Art and Culture](#) World Scientific

Viruses infect numerous microorganisms including, predominantly, Bacteria (bacteriophages or phages) but also Archaea, Protists, and Fungi. They are the most abundant and ubiquitous biological entities on Earth and are important drivers of ecosystem functioning. Little is known, however, about the vast majority of these viruses of microorganisms, or VoMs. Modern techniques such as metagenomics have enabled the discovery and description of more presumptive VoMs than ever before, but also have exposed gaps in our understanding of VoM ecology. Exploring the ecology of these viruses – which is how they interact with host organisms, the abiotic environment, larger organisms, and even other viruses across a variety of environments and conditions – is the next frontier. Integration of a growing molecular understanding of VoMs with ecological studies will expand our knowledge of ecosystem dynamics. Ecology can be studied at multiple levels including individual organisms, populations, communities, whole ecosystems, and the entire biosphere. Ecology additionally can consider normal, equilibrium conditions or instead perturbations. Perturbations are of particular interest because measuring the effect of disturbances on VoM-associated communities provides important windows into how VoMs contribute to ecosystem dynamics. These disturbances in turn can be studied through in vitro, in vivo, and in situ experimentation, measuring responses by VoM-associated communities to changes in nutrient availability, stress, physical disruption, seasonality, etc., and could apply to studies at all ecological levels. These are considered here across diverse systems and environments.

[Legal Challenges and Regulatory Policy Issues](#) Frontiers Media SA

While the history of philosophy has traditionally given scant attention to food and the ethics of eating, in the last few decades the subject of food ethics has emerged as a major topic, encompassing a wide array of issues, including labor justice, public health, social inequity, animal rights and environmental ethics. This handbook provides a much needed philosophical analysis of the ethical implications of the need to eat and the role that food plays in social, cultural and political life. Unlike other books on the topic, this text integrates traditional approaches to the subject with cutting edge research in order to set a new agenda for philosophical discussions of food ethics. The Routledge Handbook of Food Ethics is an outstanding reference source to the key topics, problems and debates in this exciting subject and is the first collection of its kind. Comprising over 35 chapters by a team of international contributors, the Handbook is divided into 7 parts: the phenomenology of food gender and food food and cultural diversity liberty, choice and food policy food and the environment farming and eating other animals food justice Essential reading for students and researchers

in food ethics, it is also an invaluable resource for those in related disciplines such as environmental ethics and bioethics.

[Quantum Machine Learning](#) Routledge

In Challenging Inequality in South Africa: Transitional Compasses leading scholars of South Africa explore creative possibilities to challenge structures of economic, social and political power that produce inequality. Through concrete empirical examples of movements, workers' struggles, initiatives, and politics in challenging inequality, the authors illustrate 'transitional compasses' that go beyond protest politics to a 'generative' politics, a politics of building the alternatives in the interstitial spaces of capitalism. The conceptual framing is oriented around the way in which power is produced and reproduced through intricate relationships between hegemonic projects and everyday life. While power underpins all social relations, it is often taken for granted, as it is frequently hidden behind other social relations. Resistance to power emerges through engendering counter-hegemonic projects that are intertwined with alternative everyday practices. The authors highlight sources of alternative forms of power found in resistance to dominant forms of power through concrete experiences to create transformative alternatives. To concretize the conceptual framing, the authors look at the emancipatory possibilities of a universal basic income, the use of law in tackling inequality in health and education, creative initiatives to establish a people-centred food system through food sovereignty, new forms of organizing led by precarious workers, democratic possibilities in local state delivery, and attempts at reconceptualizing the good life by looking at issues of happiness and ecosocialism. The chapters in this book were originally published in the journal, Globalizations.

[Digital Innovation in Financial Services](#) Springer

Recoded City examines alternative urban design, planning and architecture for the other 90%: namely the practice of participatory placemaking, a burgeoning practice that co-author Thomas Ermacora terms 'recoding'. In combining bottom-up and top-down means of regenerating and rebalancing neighbourhoods affected by declining welfare or struck by disaster, this growing movement brings greater resilience. Recoded City sheds light on a new epoch in the relationship between cities and civil society by presenting an emerging range of collaborative solutions and distributed governance models. The authors draw on their own fresh research of global pioneers forging localist design strategies, public-realm interventions and new stakeholder dynamics. As the world becomes increasingly digital and virtual, a myriad of online tools and technological options is becoming available. These give unprecedented co-creation opportunities to communities and professionals alike, yielding the benefits of a more open – DIY – society. Because of its close engagement with people, place and local identity, the field of participatory placemaking has huge untapped potential. Responding to the challenges of the Anthropocene era, Recoded City is for decision-makers, developers and practitioners working globally to make better and more liveable cities.

[Gender, Violence and Politics in the Democratic Republic of Congo](#) Kluwer Law International B.V.

This book is ground breaking in its study of business actors in climate and energy politics. While various studies have demonstrated the influence of business actors across multiple policy domains, this is the first to examine the behaviour of business actors in energy centric industries in the US that will be vital for achieving a clean energy transition, namely the oil, gas, coal, utility, and renewable industries. Drawing on almost 80 interviews with senior energy executives, lobbyists, and policymakers, it asks two central questions: (i) how and why are business actors shaping energy policy contests in the US? And (ii) what are the implications for policymakers? In answering these questions, this book provides new insights about the preferences and strategies of business in the energy sector, and, significantly, it identifies strategies for policymakers seeking to regulate energy in the face of political resistance from incumbent fossil fuel industries. This book will be of particular value to students, scholars, and policymakers working in the fields of energy, climate, and environmental politics, as well as individuals generally interested in the role that business exerts over policy processes.

[Beyond the "Actorness and Power" Debate](#) Bloomsbury Publishing

The Routledge Handbook of the Sociology of Arts and Culture offers a comprehensive overview of sociology of art and culture, focusing especially – though not exclusively – on the visual arts, literature, music, and digital culture. Extending, and critiquing, Bourdieu's influential analysis of cultural capital, the distinguished international contributors explore the extent to which cultural omnivorousness has eclipsed highbrow culture, the role of age, gender and class on cultural practices, the character of aesthetic preferences, the contemporary significance of screen culture, and the restructuring of popular culture. The Handbook critiques modes of sociological determinism in which cultural engagement is seen as the simple product of the educated middle classes. The contributions explore the critique of Eurocentrism and the global and cosmopolitan dimensions of cultural life. The book focuses particularly on bringing cutting edge 'relational' research methodologies, both qualitative and quantitative, to bear on these debates. This handbook not only describes the field, but also proposes an agenda for its development which will command major international interest.

[Information Design](#) Langaa RPCIG

The problems we face in the 21st century require innovative thinking from all of us. Be it students, academics, business researchers of government policy makers. Hopes for improving our healthcare, food supply, community safety and environmental sustainability depend on the pervasive application of research solutions. The research heroes who take on the immense problems of our time face bigger than ever challenges, but if they adopt potent guiding principles and effective research lifecycle strategies, they can produce the advances that will enhance the lives of many people. These inspirational research leaders will break free from traditional thinking, disciplinary boundaries, and narrow aspirations. They will be bold innovators and engaged collaborators, who are ready to lead, yet open to new ideas, self-confident, yet empathetic to others. In this book, Ben Shneiderman recognizes the unbounded nature of human creativity, the multiplicative power of teamwork, and the catalytic effects of innovation. He reports on the growing number of initiatives to promote more integrated approaches to research so as to promote the expansion of these efforts. It is meant as a guide to students and junior researchers, as well as a manifesto for senior researchers and policy makers, challenging widely-held beliefs about how applied innovations evolve and how basic breakthroughs are made, and to help plotting the course towards tomorrow's great advancements.

[The Growing Threat to Air Force Mission-Critical Electronics](#) Springer

It has been said that the only asset that a lawyer has is time. But the reality is that a lawyer's greatest asset is information. The practice and the business of law is all about information exchange. The flow of information travels in a number of different directions during the life of a case. A client communicates certain facts to a lawyer. The lawyer assimilates those facts and seeks out specialised legal information which may be applicable to those facts. In the course of a generation there has been a technological revolution which represents a paradigm shift in the flow of information and communication. Collisions in the Digital Paradigm is about how the law deals with digital information technologies and some of the problems that arise when the law has to deal with issues arising in a new paradigm.

[Forgotten Geological Society of America](#)

[The Growing Threat to Air Force Mission-Critical Electronics Lethality at Risk: Unclassified Summary National Academies Press](#)

[Law and Rule Making in the Internet Age Springer](#)

Extraction processes are essential steps in numerous industrial applications from perfume over pharmaceutical to fine chemical industry. Nowadays, there are three key aspects in industrial extraction processes: economy and quality, as well as environmental considerations. This book presents a complete picture of current knowledge on green extraction in terms of innovative processes, original methods, alternative solvents and safe products, and provides the necessary theoretical background as well as industrial application examples and environmental impacts. Each chapter is written by experts in the field and the strong focus on green chemistry throughout the book makes this book a unique reference source. This book is intended to be a first step towards a future cooperation in a new extraction of natural products, built to improve both fundamental and green parameters of the techniques and to increase the amount of extracts obtained from renewable resources with a minimum consumption of energy and solvents, and the maximum safety for operators and the environment.

[A comprehensive overview of food and nutrition in all stages of life Routledge](#)

This book explores convergences of legal doctrine despite jurisdictional, cultural and political barriers, as well as divergences due to such barriers, examining topics that are of vital importance to contemporary legal scholars. Written by leading experts from all continents, its 26 chapters present a comparative analysis of cutting-edge legal issues of the 21st century. While each of the countries covered stands alone as a sovereign state, in a technologically advanced world their disparate systems nonetheless show comparable strategies in dealing with complex legal issues. Several of the chapters show how, in addition to state normative production and state adjudication, a growing panoply of non-state instruments and non-state adjudication are becoming more and more central to the legal field. This book is a key addition to the library of any scholar wanting to keep abreast of the major trends in contemporary law. Representing the current state of law in a vast range of areas, it covers each topic from a comparative perspective. Cet ouvrage, en examinant des sujets d'une importance vitale pour les juristes contemporains, traite des convergences de la doctrine juridique malgré les barrières juridictionnelles, culturelles et politiques ainsi que des divergences dues à ces barrières. Écrits par d'éminents

universitaires de tous les continents, ses 26 chapitres présentent une analyse comparative de sujets juridiques majeurs du 21e siècle. Dans un monde technologiquement avancé, bien que chaque pays analysé dans cet ouvrage demeure autonome en tant qu'État souverain, l'ensemble des systèmes disparates présente néanmoins des stratégies comparables pour traiter des questions juridiques complexes. En outre, plusieurs chapitres montrent comment, en plus de la production normative et de la résolution des différends étatiques, la panoplie croissante de différents types d'instruments non étatiques et de résolution non étatique des différends devient de plus en plus centrale dans la sphère juridique. Cet ouvrage est un ajout essentiel à la bibliothèque de tout universitaire souhaitant se tenir au courant des principales tendances du droit contemporain. Il couvre un vaste domaine de sujets traités d'un point de vue comparatif et représente l'état actuel du droit dans chaque domaine.

[The Global Governance of Climate Change E. Fred Schubert](#)

A virtuosic debut from a gifted violinist searching for a new mode of artistic becoming How does time shape consciousness and consciousness, time? Do we live in time, or does time live in us? And how does music, with its patterns of rhythm and harmony, inform our experience of time? Uncommon Measure explores these questions from the perspective of a young Korean American who dedicated herself to perfecting her art until performance anxiety forced her to give up the dream of becoming a concert solo violinist. Anchoring her story in illuminating research in neuroscience and quantum physics, Hodges traces her own passage through difficult family dynamics, prejudice, and enormous personal expectations to come to terms with the meaning of a life reimagined—one still shaped by classical music but moving toward the freedom of improvisation. Natalie Hodges has performed as a classical violinist throughout Colorado and in New York, Boston, Paris, and the Italian Piedmont, as well as at the Aspen Music Festival and the Stowe Tango Music Festival. She graduated from Harvard University, where she studied English and music, and lives in Denver, Colorado. Uncommon Measure is her first book.

[The Routledge Handbook of Food Ethics Lulu.com](#)

This volume investigates a historical account of the development of landscapes management at Borobudur. In the 1970s and 1980s, there was large scale heritage conservation intervention of the Borobudur Temple by UNESCO and a simultaneous attempt of a wider landscapes management at Borobudur. But in the late 1980s and early 1990s, a global heritage discourse of an enlarged value system emerged. This discourse embraced issues such as cultural landscape, living history, intangible values, vernacular heritage, and urban landscapes with community involvement. The early 1990s saw a move against the European-dominated discourse of heritage as well as the concept of authenticity in the World Heritage system and other European-oriented classifications. The Asian experience in heritage discourse has begun to have a significant impact on the European standard. Additionally, in the 1990s, there was a gradual recognition of the concept of cultural landscape, which differed both within Asia and between Asia and Europe. These different ideas are evident in the case of the Borobudur Temple and its 1991 nomination to the World Heritage List. This book focuses how the management of the Borobudur historical monument and its landscapes was developed and reached current exclusive national legislative framework and set as an example for others sites in the region and for other regions to consider.

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