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### KEY=6BT - WATSON GRAHAM

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**Boating Textbook of Plastic and Reconstructive Surgery** UCL Press Written by experts from London's renowned Royal Free Hospital, *Textbook of Plastic and Reconstructive Surgery* offers a comprehensive overview of the vast topic of reconstructive plastic surgery and its various subspecialties for introductory plastic surgery and surgical science courses. The book comprises five sections covering the fundamental principles of plastic surgery, cancer, burns and trauma, paediatric plastic surgery and aesthetic surgery, and covers the breadth of knowledge that students need to further their career in this exciting field. Additional coverage of areas in which reconstructive surgery techniques are called upon includes abdominal wall reconstruction, ear reconstruction and genital reconstruction. A chapter on aesthetic surgery includes facial aesthetic surgery and blepharoplasty, aesthetic breast surgery, body contouring and the evolution of hair transplantation. The broad scope of this volume and attention to often neglected specialisms such as military plastic surgery make this a unique contribution to the field. Heavily illustrated throughout, *Textbook of Plastic and Reconstructive Surgery* is essential reading for anyone interested in furthering their knowledge of this exciting field. This book was produced as part of JISC's Institution as e-Textbook Publisher project. Find out more at <https://www.jisc.ac.uk/rd/projects/institution-as-e-textbook-publisher>

**Governing Marine Protected Areas Resilience through Diversity** Routledge In this innovative volume, the author addresses some important challenges related to the effective and equitable governance of marine protected areas (MPAs). These challenges are explored through a study of 20 MPA case studies from around the world. A novel governance analysis framework is employed to address some key questions: How can top-down and bottom-up approaches to MPA governance be combined? What does this mean, in reality, in different contexts? How can we develop and implement governance approaches that are both effective in achieving conservation objectives and equitable in fairly sharing associated costs and benefits? The author explores the many issues that these questions raise, as well as exploring options for addressing them. A key theme is that MPA governance needs to combine people, state and market approaches, rather than being based on one approach and its related ideals. Building on a critique of the governance analysis framework developed for common-pool resources, the author puts forward a more holistic and less prescriptive framework for deconstructing and analyzing the governance of MPAs. This inter-disciplinary analysis is aimed at supporting the development of MPA governance approaches that build social-ecological resilience through both institutional and biological diversity. It will also make a significant contribution to wider debates on natural resource governance, as it poses some critical questions for contemporary approaches to related research and offers an alternative theoretical and empirical approach.

**Ecoacoustics The Ecological Role of Sounds** John Wiley & Sons The sounds produced by geophonic, biophonic and technophonic sources are relevant to the function of natural and human modified ecosystems. Passive recording is one of the most non-invasive technologies as its use avoids human intrusion during acoustic surveys and facilitates the accumulation of huge amounts of acoustical data. For the first time, this book collates and reviews the science behind ecoacoustics; illustrating the principles, methods and applications of this exciting new field. Topics covered in this comprehensive volume include; the assessment of biodiversity based on sounds emanating from a variety of environments the best technologies and methods necessary to investigate environmental sounds implications for climate change and urban systems the relationship between landscape ecology and ecoacoustics the conservation of soundscapes and the social value of ecoacoustics areas of potential future research. An invaluable resource for scholars, researchers and students, *Ecoacoustics: The Ecological Role of Sounds* provides an unrivalled set of ideas, tools and references based on the current state of the field.

**Anthropology of Landscape The Extraordinary in the Ordinary** UCL Press An *Anthropology of Landscape* tells the fascinating story of a heathland landscape in south-west England and the way different individuals and groups engage with it. Based on a long-term anthropological study, the book emphasises four individual themes: embodied identities, the landscape as a sensuous material form that is acted upon and in turn acts on people, the landscape as contested, and its relation to emotion. The landscape is discussed in relation to these themes as both 'taskscape' and 'leisurescape', and from the perspective of different user groups. First, those who manage the landscape and use it for work: conservationists, environmentalists, archaeologists, the Royal Marines, and quarrying interests. Second, those who use it in their leisure time: cyclists and horse riders, model aircraft flyers, walkers, people who fish there, and artists who are inspired by it. The book makes an innovative contribution to landscape studies and will appeal to all those interested in nature conservation, historic preservation, the politics of nature, the politics of identity, and an anthropology of Britain.

**Mobile Museums Collections in circulation** UCL Press *Mobile Museums* presents an argument for the importance of circulation in the study of museum collections, past and present. It brings together an impressive array of international scholars and curators from a wide variety of disciplines - including the history of science, museum anthropology and postcolonial history - to consider the mobility of collections. The book combines historical perspectives on the circulation of museum objects in the past with contemporary accounts of their re-mobilisation, notably in the context of Indigenous community engagement. Contributors seek to explore processes of circulation historically in order to re-examine, inform and unsettle common assumptions about the way museum collections have evolved over time and through space. By foregrounding questions of circulation, the chapters in *Mobile Museums* collectively represent a fundamental shift in the understanding of the history and future uses of museum collections. The book addresses a variety of different types of collection, including the botanical, the ethnographic, the economic and the archaeological. Its perspective is truly global, with case studies drawn from South America, West Africa, Oceania, Australia, the United States, Europe and the UK. *Mobile Museums* helps us to understand why the mobility of museum collections was a fundamental aspect of their history and why it continues to matter today. Praise for

*Mobile Museums* 'This book advances a paradigm shift in studies of museums and collections. A distinguished group of contributors reveal that collections are not dead assemblages. The nineteenth and twentieth centuries were marked by vigorous international traffic in ethnography and natural history specimens that tell us much about colonialism, travel and the history of knowledge – and have implications for the remobilisation of museums in the future.' – Nicholas Thomas, University of Cambridge 'The first major work to examine the implications and consequences of the migration of materials from one scientific or cultural milieu to another, it highlights the need for a more nuanced understanding of collections and offers insights into their potential for future re-mobilisation.' – Arthur MacGregor

**Remains of the Soviet Past in Estonia An Anthropology of Forgetting, Repair and Urban Traces** UCL Press What happens to legacies that do not find any continuation? In Estonia, a new generation that does not remember the socialist era and is open to global influences has grown up. As a result, the impact of the Soviet memory in people's conventional values is losing its effective power, opening new opportunities for repair and revaluation of the past. Francisco Martínez brings together a number of sites of interest to explore the vanquishing of the Soviet legacy in Estonia: the railway bazaar in Tallinn where concepts such as 'market' and 'employment' take on distinctly different meanings from their Western use; Linnahall, a grandiose venue, whose Soviet heritage now poses difficult questions of how to present the building's history; Tallinn's cityscape, where the social, spatial and temporal co-evolution of the city can be viewed and debated; Narva, a city that marks the border between the Russian Federation, NATO and the European Union, and represents a place of continual negotiation of belonging; and the new Estonian National Museum in Raadi, an area on the outskirts of Tartu, that has been turned into a memory field. The anthropological study of all these places shows that national identity and historical representations can be constructed in relation to waste and disrepair too, also demonstrating how we can understand generational change in a material sense. Praise for *Remains of the Soviet Past in Estonia* 'By adopting the tropes of 'repair' and 'waste', this book innovatively manages to link various material registers from architecture, intergenerational relations, affect and museums with ways of making the past present. Through a rigorous yet transdisciplinary method, Martínez brings together different scales and contexts that would often be segregated out. In this respect, the ethnography unfolds a deep and nuanced analysis, providing a useful comparative and insightful account of the processes of repair and waste making in all their material, social and ontological dimensions.' Victor Buchli, Professor of Material Culture at UCL 'This book comprises an endearingly transdisciplinary ethnography of postsocialist material culture and social change in Estonia. Martínez creatively draws on a number of critical and cultural theorists, together with additional research on memory and political studies scholarship and the classics of anthropology. Grappling concurrently with time and space, the book offers a delightfully thick description of the material effects generated by the accelerated post-Soviet transformation in Estonia, inquiring into the generational specificities in experiencing and relating to the postsocialist condition through the conceptual anchors of wasted legacies and repair. This book defies disciplinary boundaries and shows how an attention to material relations and affective infrastructures might reinvigorate political theory.' Maria Mälksoo, Senior Lecturer, Brussels School of International Studies at the University of Kent

**Recent Progress in Slow Sand and Alternative Biofiltration Processes** IWA Publishing Slow sand filtration is typically cited as being the first "engineered" process in drinking-water treatment. Proven modifications to the conventional slow sand filtration process, the awareness of induced biological activity in riverbank filtration systems, and the growth of oxidant-induced biological removals in more rapid-rate filters (e.g. biological activated carbon) demonstrate the renaissance of biofiltration as a treatment process that remains viable for both small, rural communities and major cities. Biofiltration is expected to become even more common in the future as efforts intensify to decrease the presence of disease-causing microorganisms and disinfection by-products in drinking water, to minimize microbial regrowth potential in distribution systems, and where operator skill levels are emphasized. *Recent Progress in Slow Sand and Alternative Biofiltration Processes* provides a state-of-the-art assessment on a variety of biofiltration systems from studies conducted around the world. The authors collectively represent a perspective from 23 countries and include academics, biofiltration system users, designers, and manufacturers. It provides an up-to-date perspective on the physical, chemical, biological, and operational factors affecting the performance of slow sand filtration (SSF), riverbank filtration (RBF), soil-aquifer treatment (SAT), and biological activated carbon (BAC) processes. The main themes are: comparable overviews of biofiltration systems; slow sand filtration process behavior, treatment performance and process developments; and alternative biofiltration process behaviors, treatment performances, and process developments.

**Decolonizing Science in Latin American Art** UCL Press Projects that bring the 'hard' sciences into art are increasingly being exhibited in galleries and museums across the world. In a surge of publications on the subject, few focus on regions beyond Europe and the Anglophone world. *Decolonizing Science in Latin American Art* assembles a new corpus of art-science projects by Latin American artists, ranging from big-budget collaborations with NASA and MIT to homegrown experiments in artists' kitchens. While they draw on recent scientific research, these art projects also 'decolonize' science. If increasing knowledge of the natural world has often gone hand-in-hand with our objectification and exploitation of it, the artists studied here emphasize the subjectivity and intelligence of other species, staging new forms of collaboration and co-creativity beyond the human. They design technologies that work with organic processes to promote the health of ecosystems, and seek alternatives to the logics of extractivism and monoculture farming that have caused extensive ecological damage in Latin America. They develop do-it-yourself, open-source, commons-based practices for sharing creative and intellectual property. They establish critical dialogues between Western science and indigenous thought, reconnecting a disembodied, abstracted form of knowledge with the cultural, social, spiritual, and ethical spheres of experience from which it has often been excluded. *Decolonizing Science in Latin American Art* interrogates how artistic practices may communicate, extend, supplement, and challenge scientific ideas. At the same time, it explores broader questions in the field of art, including the relationship between knowledge, care, and curation; nonhuman agency; art and utility; and changing approaches to participation. It also highlights important contributions by Latin American thinkers to themes of global significance, including the Anthropocene, climate change and environmental justice.

**The Venice Variations Tracing the Architectural Imagination** UCL Press From the myth of Arcadia through to the twenty-first century, ideas about sustainability – how we imagine better urban environments – remain persistently relevant, and raise recurring questions. How do cities evolve as complex spaces nurturing both urban creativity and the fortuitous art of discovery, and by which mechanisms do they foster imagination and innovation? While past utopias were conceived in terms of an ideal geometry, contemporary exemplary models of urban design seek technological solutions of optimal organisation. *The Venice Variations* explores Venice as a prototypical city that may hold unique answers to the ancient narrative of utopia. Venice was not the result of a preconceived ideal but the pragmatic outcome of social and economic networks of

communication. Its urban creativity, though, came to represent the quintessential combination of place and institutions of its time. Through a discussion of Venice and two other works owing their inspiration to this city – Italo Calvino’s *Invisible Cities* and Le Corbusier’s *Venice Hospital* – Sophia Psarra describes Venice as a system that starts to resemble a highly probabilistic ‘algorithm’, that is, a structure with a small number of rules capable of producing a large number of variations. The rapidly escalating processes of urban development around our big cities share many of the motivations for survival, shelter and trade that brought Venice into existence. Rather than seeing these places as problems to be solved, we need to understand how urban complexity can evolve, as happened from its unprepossessing origins in the marshes of the Venetian lagoon to the ‘model city’ that endured a thousand years. This book frees Venice from stereotypical representations, revealing its generative capacity to inform potential other ‘Venices’ for the future.

**Hydrology: Advances in Theory and Practice** IWA Publishing *Hydrology: Advances in Theory and Practice*, brings together contributions to both the theory and practice of hydrology, including chapters on (amongst other topics) flood estimation methods and hydrological modelling. The book also looks forward with a global hydrology research agenda fit for the 2030s, and explores how to make advances in hydrological modelling – based on almost 50 years of modelling experience. In *Focus* – a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector.

**The Handbook of Environmental Education** Routledge Formal education is beginning to reflect an increase in environmental concern. Drawing on case studies, the authors explain how this subject can best be implemented at classroom level.

**Renaissance Fun** UCL Press *Renaissance Fun* is about the technology of Renaissance entertainments in stage machinery and theatrical special effects; in gardens and fountains; and in the automata and self-playing musical instruments that were installed in garden grottoes. How did the machines behind these shows work? How exactly were chariots filled with singers let down onto the stage? How were flaming dragons made to fly across the sky? How were seas created on stage? How did mechanical birds imitate real birdsong? What was ‘artificial music’, three centuries before Edison and the phonograph? How could pipe organs be driven and made to play themselves by waterpower alone? And who were the architects, engineers, and craftsmen who created these wonders? All these questions are answered. At the end of the book we visit the lost ‘garden of marvels’ at Pratolino with its many grottoes, automata and water jokes; and we attend the performance of *Mercury and Mars* in Parma in 1628, with its spectacular stage effects and its music by Claudio Monteverdi – one of the places where opera was born. *Renaissance Fun* is offered as an entertainment in itself. But behind the show is a more serious scholarly argument, centred on the enormous influence of two ancient writers on these subjects, Vitruvius and Hero. Vitruvius’s *Ten Books on Architecture* were widely studied by Renaissance theatre designers. Hero of Alexandria wrote the *Pneumatics*, a collection of designs for surprising and entertaining devices that were the models for sixteenth and seventeenth century automata. A second book by Hero *On Automata-Making* – much less well known, then and now – describes two miniature theatres that presented plays without human intervention. One of these, it is argued, provided the model for the type of proscenium theatre introduced from the mid-sixteenth century, the generic design which is still built today. As the influence of Vitruvius waned, the influence of Hero grew.

**Critical Medical Anthropology Perspectives in and from Latin America** UCL Press *Critical Medical Anthropology* presents inspiring work from scholars doing and engaging with ethnographic research in or from Latin America, addressing themes that are central to contemporary Critical Medical Anthropology (CMA). This includes issues of inequality, embodiment of history, indigeneity, non-communicable diseases, gendered violence, migration, substance abuse, reproductive politics and judicialisation, as these relate to health. The collection of ethnographically informed research, including original theoretical contributions, reconsiders the broader relevance of CMA perspectives for addressing current global healthcare challenges from and of Latin America. It includes work spanning four countries in Latin America (Mexico, Brazil, Guatemala and Peru) as well as the trans-migratory contexts they connect and are defined by. By drawing on diverse social practices, it addresses challenges of central relevance to medical anthropology and global health, including reproduction and maternal health, sex work, rare and chronic diseases, the pharmaceutical industry and questions of agency, political economy, identity, ethnicity, and human rights.

**Environmental education in the schools creating a program that works.** DIANE Publishing

**Marine Diesel Engines Maintenance, Troubleshooting and Repair** Adlard Coles Nigel Calder, a diesel mechanic for more than 25 years, is also a boatbuilder, cabinetmaker, and machinist. He and his wife built their own cruising sailboat, *Nada*, a project they completed in 1984. Calder is author of numerous articles for *Yachting Monthly* and many other magazines worldwide, as well as the bestselling *Boatowner’s Practical and Technical Cruising Manual* and *Boatowner’s Mechanical and Electrical Manual*, both published by Adlard Coles Nautical. Here, in this goldmine of a book, is everything the reader needs to keep their diesel engine running cleanly and efficiently. It explains how diesel engines work, defines new terms, and lifts the veil of mystery that surrounds such engines. Clear and logical, this extensively illustrated guide will enable the reader to be their own diesel mechanic. As Nigel Calder says: ‘there is no reason for a boatowner not to have a troublefree relationship with a diesel engine. All one needs is to set the engine up correctly in the first place, to pay attention to routine maintenance, to have the knowledge to spot early warning signs of impending trouble, and to have the ability to correct small ones before they become large ones.’

**Water Societies and Technologies from the Past and Present** UCL Press Today our societies face great challenges with water, in terms of both quantity and quality, but many of these challenges have already existed in the past. Focusing on Asia, *Water Societies and Technologies from the Past and Present* seeks to highlight the issues that emerge or re-emerge across different societies and periods, and asks what they can tell us about water sustainability. Incorporating cutting-edge research and pioneering field surveys on past and present water management practices, the interdisciplinary contributors together identify how societies managed water resource challenges and utilised water in ways that allowed them to evolve, persist, or drastically alter their environment. The case studies, from different periods, ancient and modern, and from different regions, including Egypt, Sri Lanka, Cambodia, Southwest United States, the Indus Basin, the Yangtze River, the Mesopotamian floodplain, the early Islamic city of Sultan Kala in Turkmenistan, and ancient Korea, offer crucial empirical data to readers interested in comparing the dynamics of water management practices across time and space, and to those who wish to understand water-related issues through conceptual and quantitative models of water use. The case studies also challenge classical theories on water management and social evolution, examine and establish the deep historical roots and ecological foundations of water sustainability issues, and contribute new grounds for innovations in sustainable urban planning and ecological resilience.

**Developing the Higher Education Curriculum Research-Based Education in Practice** UCL Press A complementary volume to Dilly Fung’s *A Connected Curriculum for Higher Education* (2017), this book explores ‘research-

based education' as applied in practice within the higher education sector. A collection of 15 chapters followed by illustrative vignettes, it showcases approaches to engaging students actively with research and enquiry across disciplines. It begins with one institution's creative approach to research-based education – UCL's Connected Curriculum, a conceptual framework for integrating research-based education into all taught programmes of study – and branches out to show how aspects of the framework can apply to practice across a variety of institutions in a range of national settings. The 15 chapters are provided by a diverse range of authors who all explore research-based education in their own way. Some chapters are firmly based in a subject-discipline – including art history, biochemistry, education, engineering, fashion and design, healthcare, and veterinary sciences – while others reach across geopolitical regions, such as Australia, Canada, China, England, Scotland and South Africa. The final chapter offers 12 short vignettes of practice to highlight how engaging students with research and enquiry can enrich their learning experiences, preparing them not only for more advanced academic learning, but also for professional roles in complex, rapidly changing social contexts. **Calcareous**

**Nannoplankton Laser Raman Gas Diagnostics** Springer Science & Business Media The Laser Raman Workshop on the measurement of Gas Properties is one of a series of occasional meetings organized in an informal workshop format through the stimulation of Project SQUID, Office of Naval Research. This workshop is the second to be organized on gas-phase applications of Raman scattering. Both Raman workshops were supported by Project SQUID, ONR, and the Air Force Aero Propulsion Laboratory, Wright-Patterson Air Force Base. The first Raman Workshop was held at the AVCO Everett Research Laboratory, Everett, Massachusetts, with their co-sponsorship in January 1972 under the chairmanship of D. A. Leonard. The present meeting was co-sponsored by the General Electric Research and Development Center, and held at their facility in Schenectady, New York. We are grateful to Project SQUID, AFAPL, and GE for their generous financial support of this Workshop, and to Project SQUID for underwriting the publication costs of the Proceedings. As is always the case for successful meetings, many people contributed substantially to the organization and execution of this workshop. Professor Robert Goulard supported, aided, and encouraged us in the most helpful ways, and we are indebted to him. We received further valuable support and assistance from Dr. Ralph Roberts, Director, and Mr. James R. Patton, Jr., of the Power Branch, Office of Naval Research; from Dr. William H. Heiser, Chief Scientist of the Aero Propulsion Laboratory; and from Dr. James M.

**Physics.** The publication of the first edition of *Physics* in 1960 launched the modern era of physics textbooks. It was a new paradigm then and, after 40 years, it continues to be the dominant model for all texts. The big change in the market has been a shift to a lower level, more accessible version of the model. *Fundamentals of Physics* is a good example of this shift. In spite of this change, there continues to be a demand for the original version and, indeed, we are seeing a renewed interest in *Physics* as demographic changes have led to greater numbers of well-prepared students entering university. *Physics* is the only book available for academics looking to teach a more demanding course. **People of Today Quantitative Magnetic Resonance Imaging** Academic Press *Quantitative Magnetic Resonance Imaging* is a 'go-to' reference for methods and applications of quantitative magnetic resonance imaging, with specific sections on Relaxometry, Perfusion, and Diffusion. Each section will start with an explanation of the basic techniques for mapping the tissue property in question, including a description of the challenges that arise when using these basic approaches. For properties which can be measured in multiple ways, each of these basic methods will be described in separate chapters. Following the basics, a chapter in each section presents more advanced and recently proposed techniques for quantitative tissue property mapping, with a concluding chapter on clinical applications. The reader will learn: The basic physics behind tissue property mapping How to implement basic pulse sequences for the quantitative measurement of tissue properties The strengths and limitations to the basic and more rapid methods for mapping the magnetic relaxation properties  $T_1$ ,  $T_2$ , and  $T_2^*$  The pros and cons for different approaches to mapping perfusion The methods of Diffusion-weighted imaging and how this approach can be used to generate diffusion tensor maps and more complex representations of diffusion How flow, magneto-electric tissue property, fat fraction, exchange, elastography, and temperature mapping are performed How fast imaging approaches including parallel imaging, compressed sensing, and Magnetic Resonance Fingerprinting can be used to accelerate or improve tissue property mapping schemes How tissue property mapping is used clinically in different organs Structured to cater for MRI researchers and graduate students with a wide variety of backgrounds Explains basic methods for quantitatively measuring tissue properties with MRI - including  $T_1$ ,  $T_2$ , perfusion, diffusion, fat and iron fraction, elastography, flow, susceptibility - enabling the implementation of pulse sequences to perform measurements Shows the limitations of the techniques and explains the challenges to the clinical adoption of these traditional methods, presenting the latest research in rapid quantitative imaging which has the possibility to tackle these challenges Each section contains a chapter explaining the basics of novel ideas for quantitative mapping, such as compressed sensing and Magnetic Resonance Fingerprinting-based approaches **The Use of the Eyes in Movement** Feldenkrais Resources The eyes initiate and control most motor behavior. Working with the relationship of the eyes to the rest of the body can be a powerful means to improve physical organization and functioning. Jack Heggie combines the theory and practice of "Awareness Through Movement" (r) with the vision improvement of Dr. William Bates and has developed 13 "Awareness Through Movement" vision exercises which reduce eye strain and improve posture, flexibility and visual acuity. **Geocomputation** CRC Press Geocomputation is essentially the follow-on revolution from Geographic Information Science and is expected to gather speed and momentum in the first decade of the 21st century. It comes into use once a GIS database has been set up, with a digital data library, and expanded and linked to a global geographical two or three dimensional coordinate system. It exploits developments in IT and new data gathering and earth observing technologies, and takes the notion of GIS beyond data and towards its analysis, modelling, and use in problem solving. This book provides pointers on how to harness these technologies in tandem and in the context of multiple different subjects and problem areas. It seeks to establish the principles and set the foundations for subsequent growth. **L Scattered Finds Archaeology, Egyptology and Museums** UCL Press Between the 1880s and 1980s, British excavations at locations across Egypt resulted in the discovery of hundreds of thousands of ancient objects that were subsequently sent to some 350 institutions worldwide. These finds included unique discoveries at iconic sites such as the tombs of ancient Egypt's first rulers at Abydos, Akhenaten and Nefertiti's city of Tell el-Amarna and rich Roman Era burials in the Fayum. *Scattered Finds* explores the politics, personalities and social histories that linked fieldwork in Egypt with the varied organizations around the world that received finds. Case studies range from Victorian municipal museums and women's suffrage campaigns in the UK, to the development of some of the USA's largest institutions, and from university museums in Japan to new institutions in post-independence Ghana. By juxtaposing a diversity of sites for the reception of Egyptian cultural heritage over the period of a century, Alice Stevenson presents new ideas about the development of archaeology, museums and the construction of Egyptian heritage. She

also addresses the legacy of these practices, raises questions about the nature of the authority over such heritage today, and argues for a stronger ethical commitment to its stewardship. Praise for *Scattered Finds* 'Scattered Finds is a remarkable achievement. In charting how British excavations in Egypt dispersed artefacts around the globe, at an unprecedented scale, Alice Stevenson shows us how ancient objects created knowledge about the past while firmly anchored in the present. No one who reads this timely book will be able to look at an Egyptian antiquity in the same way again.' Professor Christina Riggs, UEA

**The Origins of Self An Anthropological Perspective** UCL Press *The Origins of Self* explores the role that selfhood plays in defining human society, and each human individual in that society. It considers the genetic and cultural origins of self, the role that self plays in socialisation and language, and the types of self we generate in our individual journeys to and through adulthood. Edwardes argues that other awareness is a relatively early evolutionary development, present throughout the primate clade and perhaps beyond, but self-awareness is a product of the sharing of social models, something only humans appear to do. The self of which we are aware is not something innate within us, it is a model of our self produced as a response to the models of us offered to us by other people. Edwardes proposes that human construction of selfhood involves seven different types of self. All but one of them are internally generated models, and the only non-model, the actual self, is completely hidden from conscious awareness. We rely on others to tell us about our self, and even to let us know we are a self.

**Viral Loads Anthropologies of urgency in the time of COVID-19** UCL Press Drawing upon the empirical scholarship and research expertise of contributors from all settled continents and from diverse life settings and economies, *Viral Loads* illustrates how the COVID-19 pandemic, and responses to it, lay bare and load onto people's lived realities in countries around the world. A crosscutting theme pertains to how social unevenness and gross economic disparities are shaping global and local responses to the pandemic, and illustrate the effects of both the virus and efforts to contain it in ways that amplify these inequalities. At the same time, the contributions highlight the nature of contemporary social life, including virtual communication, the nature of communities, neoliberalism and contemporary political economies, and the shifting nature of nation states and the role of government. Over half of the world's population has been affected by restrictions of movement, with physical distancing requirements and self-isolation recommendations impacting profoundly on everyday life but also on the economy, resulting also, in turn, with dramatic shifts in the economy and in mass unemployment. By reflecting on how the pandemic has interrupted daily lives, state infrastructures and healthcare systems, the contributing authors in this volume mobilise anthropological theories and concepts to locate the pandemic in a highly connected and exceedingly unequal world. The book is ambitious in its scope – spanning the entire globe – and daring in its insistence that medical anthropology must be a part of the growing calls to build a new world.

**Quarto Series Internet of Things and Artificial Intelligence in Transportation Revolution** MDPI The advent of Internet of Things offers a scalable and seamless connection of physical objects, including human beings and devices. This, along with artificial intelligence, has moved transportation towards becoming intelligent transportation. This book is a collection of eleven articles that have served as examples of the success of internet of things and artificial intelligence deployment in transportation research. Topics include collision avoidance for surface ships, indoor localization, vehicle authentication, traffic signal control, path-planning of unmanned ships, driver drowsiness and stress detection, vehicle density estimation, maritime vessel flow forecast, and vehicle license plate recognition. High-performance computing services have become more affordable in recent years, which triggered the adoption of deep-learning-based approaches to increase the performance standards of artificial intelligence models. Nevertheless, it has been pointed out by various researchers that traditional shallow-learning-based approaches usually have an advantage in applications with small datasets. The book can provide information to government officials, researchers, and practitioners. In each article, the authors have summarized the limitations of existing works and offered valuable information on future research directions.

**Socialism, Capitalism and Alternatives** UCL Press In 1989 the Berlin Wall came down. Two years later the Soviet Union disintegrated. The collapse of communism in Eastern Europe and the Soviet Union discredited the idea of socialism for generations to come. It was seen as representing the final and irreversible victory of capitalism. This triumphal dominance was barely challenged until the 2008 financial crisis threw the Western world into a state of turmoil. Through analysis of post-socialist Russia and Central and Eastern Europe, as well as of the United Kingdom, China and the United States, *Socialism, Capitalism and Alternatives* confronts the difficulty we face in articulating alternatives to capitalism, socialism and threatening populist regimes. Beginning with accounts of the impact of capitalism on countries left behind by the planned economies, the volume moves on to consider how China has become a beacon of dynamic economic growth, aggressively expanding its global influence. The final section of the volume poses alternatives to the ideological dominance of neoliberalism in the West. Since the 2008 financial crisis, demands for social change have erupted across the world. Exposing the failure of neoliberalism in the United Kingdom and examining recent social movements in Europe and the United States, the closing chapters identify how elements of past ideas are re-emerging, among them Keynesianism and radical socialism. As those chapters indicate, these ideas might well have potential to mobilise support and challenge the dominance of neoliberalism.

**Wireless World Science Policy Under Thatcher** UCL Press Margaret Thatcher was prime minister from 1979 to 1990, during which time her Conservative administration transformed the political landscape of Britain. *Science Policy under Thatcher* is the first book to examine systematically the interplay of science and government under her leadership. Thatcher was a working scientist before she became a professional politician, and she maintained a close watch on science matters as prime minister. Scientific knowledge and advice were important to many urgent issues of the 1980s, from late Cold War questions of defence to emerging environmental problems such as acid rain and climate change. Drawing on newly released primary sources, Jon Agar explores how Thatcher worked with and occasionally against the structures of scientific advice, as the scientific aspects of such issues were balanced or conflicted with other demands and values. To what extent, for example, was the freedom of the individual scientist to choose research projects balanced against the desire to secure more commercial applications? What was Thatcher's stance towards European scientific collaboration and commitments? How did cuts in public expenditure affect the publicly funded research and teaching of universities? In weaving together numerous topics, including AIDS and bioethics, the nuclear industry and strategic defence, Agar adds to the picture we have of Thatcher and her radically Conservative agenda, and argues that the science policy devised under her leadership, not least in relation to industrial strategy, had a prolonged influence on the culture of British science.

**Observing the Volcano World Volcano Crisis Communication** Springer This open access book provides a comprehensive overview of volcanic crisis research, the goal being to establish ways of successfully applying volcanology in practice and to identify areas that need to be addressed for future progress. It shows how volcano crises are managed in practice, and helps to establish best practices. Consequently the book brings

together authors from all over the globe who work with volcanoes, ranging from observatory volcanologists, disaster practitioners and government officials to NGO-based and government practitioners to address three key aspects of volcanic crises. First, the book explores the unique nature of volcanic hazards, which makes them a particularly challenging threat to forecast and manage, due in part to their varying spatial and temporal characteristics. Second, it presents lessons learned on how to best manage volcanic events based on a number of crises that have shaped our understanding of volcanic hazards and crises management. Third, it discusses the diverse and wide-ranging aspects of communication involved in crises, which merge old practices and new technologies to accommodate an increasingly challenging and globalised world. The information and insights presented here are essential to tapping established knowledge, moving towards more robust volcanic crises management, and understanding how the volcanic world is perceived from a range of standpoints and contexts around the globe. **People and Computers XIV – Usability or Else!**

**Proceedings of Hci 2000** Springer Science & Business Media This proceeding contains a selection of state of the art refereed papers on current Human-Computer Interaction topics, presented at the HCI 2000 conference. This conference is the annual conference of the British HCI Group, and was held at Sunderland University in September 2000. HCI 2000 is the premier European Human-Computer Interaction forum. People and Computers XIV represents a comprehensive guide to current research in HCI which will be essential reading for all researchers, designers and manufacturers who need to keep abreast of developments in HCI. **Introduction to Mineral**

**Exploration** Wiley-Blackwell This new, up dated edition of Introduction to Mineral Exploration provides a comprehensive overview of all aspects of mineral exploration. Covers not only the nature of mineral exploration but also considers other factors essential to successful exploration, from target evaluation to feasibility studies for extraction and production. Includes six detailed case studies, selected for the range of different problems and considerations they present to the mineral explorationist. Features new chapters on handling mineral exploration data and a new case study on the exploration for diamonds. Essential reading for upper level undergraduates studying ore geology, mineral exploration, mining geology, coal exploration, and industrial minerals, as well as professional geologists. Artwork from the book is available to instructors online at [www.blackwellpublishing.com/moon](http://www.blackwellpublishing.com/moon). **Sri Lanka at**

**the Crossroads of History** UCL Press The peoples of Sri Lanka have participated in far-flung trading networks, religious formations, and Asian and European empires for millennia. This interdisciplinary volume sets out to draw Sri Lanka into the field of Asian and Global History by showing how the latest wave of scholarship has explored the island as a 'crossroads', a place defined by its openness to movement across the Indian Ocean. Experts in the history, archaeology, literature and art of the island from c.500 BCE to c.1850 CE use Lankan material to explore a number of pressing scholarly debates. They address these matters from their varied disciplinary perspectives and diverse array of sources, critically assessing concepts such as ethnicity, cosmopolitanism and localisation, and elucidating the subtle ways in which the foreign may be resisted and embraced at the same time. The individual chapters, and the volume as a whole, are a welcome addition to the history and historiography of Sri Lanka, as well as studies of the Indian Ocean region, kingship, colonialism, imperialism, and early modernity. **Hydrodynamics of Ocean Wave-Energy Utilization**

**IUTAM Symposium Lisbon/Portugal 1985** Springer Science & Business Media The papers which follow were presented at an International Symposium held in Lisbon from 8-11 July 1985 on the Hydrodynamics of Ocean Wave-Energy Utilization and sponsored by the International Union of Theoretical and Applied Mechanics. The subject of the Symposium embraced wave statistics, numerical methods, theoretical, experimental and field studies of wave energy devices. The idea of extracting useful energy from ocean waves continues to attract the curiosity of scientists and engineers in many parts of the world as the following papers indicate. Increasingly the trend is towards smaller devices suitable for use near remote island communities where wave power, as an alternative to costly diesel fuel for electric generators, is already very competitive in economic terms. The decision to build two different prototype wave-power devices into the cliffs off Bergen in Norway has provided a welcome impetus to the field, stimulating a large amount of theoretical work on oscillating water column-type devices. In particular phase control methods - in which force and velocity of a rigid body, or pressure and volume flux across a turbine are matched in phase to achieve maximum power output - rightfully occupy a central place in the papers that follow. In addition to the established workers in the field, a new generation of wave-energy enthusiasts is emerging, learning from the mistakes of others and contributing exciting ideas of both a conceptual and practical nature. **Agent-Based Models of Geographical Systems**

Springer Science & Business Media This unique book brings together a comprehensive set of papers on the background, theory, technical issues and applications of agent-based modelling (ABM) within geographical systems. This collection of papers is an invaluable reference point for the experienced agent-based modeller as well those new to the area. Specific geographical issues such as handling scale and space are dealt with as well as practical advice from leading experts about designing and creating ABMs, handling complexity, visualising and validating model outputs. With contributions from many of the world's leading research institutions, the latest applied research (micro and macro applications) from around the globe exemplify what can be achieved in geographical context. This book is relevant to researchers, postgraduate and advanced undergraduate students, and professionals in the areas of quantitative geography, spatial analysis, spatial modelling, social simulation modelling and geographical information sciences. **Who's who in European Research and Development**