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Somalia: State Collapse, Terrorism and Piracy *Rome and the Classic Maya* Development Challenges, South-South Solutions: December 2009 Issue Sustainability **Benzylidene Compounds: Advances in Research and Application: 2011 Edition** *Climate Change: An Encyclopedia of Science, Society, and Solutions [3 volumes]* Drawing a Line in the Sea **China Telecom Monthly Newsletter July 2010** **Continuum Mechanics** *Food Texture Design and Optimization* **The Discourses of Environmental Collapse** *Mathematical Aspects of Fluid Mechanics* **Issues in Bioengineering and Bioinformatics: 2011 Edition** *Why Communism Did Not Collapse* Mechanical Behaviour of Salt VII **Understanding Collapse** *Biomaterials Science* **Ecosystem Collapse and Climate Change** Pandemnomics: The Pandemic's Lasting Economic Effects *Fluctuation Theory of Solutions* **Ways of Social Change** Karst Hydrogeology, Geomorphology and Caves Drilling Engineering Problems and Solutions *Advances in Interdisciplinary Mathematical Research* Optimization of Organization And Legal Solutions Concerning Public Revenues And Expenditures in Public Interest Global Problems, Smart Solutions **Advances in Civil Infrastructure Engineering** *Protostars and Planets VI* **Development Challenges, South-South Solutions: February 2012 Issue** Mechanics of Structures and Materials XXIV **No Tomorrows** *Questioning Collapse* **Development Challenges, South-South Solutions: May 2011 Issue** **Development Challenges, South-South Solutions: July 2011 Issue** Development Challenges, South-South Solutions: September 2011 Issue *Geomorphological impacts of extreme weather* Biomaterials Science **Pathways to Thinking Schools** **Hydro-Environmental Analysis** **Development Challenges, South-South Solutions: January 2012 Issue**

Development Challenges, South-South Solutions is the monthly e-newsletter of the United Nations Office for South-South Cooperation in UNDP (www.southerninnovator.org). It has been published every month since 2006. Its sister publication, Southern Innovator magazine, has been published since 2011. ISSN 2227-3905 Stories by David South In recent years, 'environmental collapse' has become an important way of framing and imagining environmental change and destruction, referencing issues such as climate change, species extinction and deteriorating ecosystems. Given its pervasiveness across disciplines and spheres, this edited volume articulates

environmental collapse as a discursive phenomenon worthy of sustained critical attention. Building upon contemporary conversations in the fields of archaeology and the natural sciences, this volume coalesces, explores and critically evaluates the diverse array of literatures and imaginaries that constitute environmental collapse. The volume is divided into three sections— Doc- Collapse, Pop Collapse and Craft Collapse —that independently explore distinct modes of representing, and implicit attitudes toward, environmental collapse from the lenses of diverse fields of study including climate science and policy, cinema and photo journalism. Bringing together a broad range of topics and authors, this volume will be of great interest to scholars of environmental communication and environmental humanities.

Food texture has evolved to be at the forefront of food formulation and development. Food Texture Design and Optimization presents the latest insights in food texture derived from advances in formulation science as well as sensory and instrumental measurement. This unique volume provides practical insights for professionals who are starting in the field as well as experts looking to enhance their knowledge or expand into new areas. The first part of this book presents case studies on formulating products in a broad variety of application segments, such as cheese, ice-cream, baked goods, gluten-free products, low-fat/non-fat dairy products and more. Challenges related to maintaining texture while optimizing nutritional content, cost, flavor and other attributes of the food product are investigated. The book also highlights the importance of texture design and optimization in several types of food products and demonstrates how experts have applied this knowledge in the industry. Part two provides an overview of the latest advances in tools and techniques for food texture design and optimization, focusing on the use of instrumental techniques, the application of sensory techniques, and the use of marketing and consumer insight tools in the design and optimization of food products. The ability to use advanced characterization techniques in this field is critical for both new and established practitioners in tackling the problems they face. Food Texture Design and Optimization serves as an important reference for technical practitioners on how to adopt advanced techniques in food texture research. This information is invaluable in reviewing establish the state of the art in this field and providing a minimum recommended standard for food formulators.

Development Challenges, South-South Solutions is the monthly e-newsletter for the United Nations Development Programme’s South-South Cooperation Unit (www.southerninnovator.org). It has been published every month since 2006. Petroleum and natural gas still remain the single biggest resource for energy on earth. Even as alternative and renewable sources are developed, petroleum and natural gas continue to be, by far, the most used and, if engineered properly, the most cost-effective and efficient, source of energy on the planet. Drilling engineering is one of the most important links in the energy chain, being, after all, the science of getting the resources out of the ground for processing. Without drilling engineering, there would be no gasoline, jet fuel, and the myriad of other “have to have” products that people use all over the world every day. Following up on their previous books, also available from Wiley-Scrivener, the authors, two of the most well-respected, prolific, and progressive drilling engineers in the industry, offer this groundbreaking volume. They cover the basics tenets of drilling engineering, the most common problems that the drilling engineer faces day to day, and cutting-edge new technology and processes through their

unique lens. Written to reflect the new, changing world that we live in, this fascinating new volume offers a treasure of knowledge for the veteran engineer, new hire, or student. This book is an excellent resource for petroleum engineering students, reservoir engineers, supervisors & managers, researchers and environmental engineers for planning every aspect of rig operations in the most sustainable, environmentally responsible manner, using the most up-to-date technological advancements in equipment and processes. Addresses the durability of communist autocracies in Eastern Europe and Asia, the longest-lasting type of non-democratic regime to emerge after World War I. The revised edition of this renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science. It provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. Over 29,000 copies sold, this is the most comprehensive coverage of principles and applications of all classes of biomaterials: "the only such text that currently covers this area comprehensively" - Materials Today Edited by four of the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and expanded, key new topics include of tissue engineering, drug delivery systems, and new clinical applications, with new teaching and learning material throughout, case studies and a downloadable image bank This book presents an earth science-based overview of the challenges to sustainability. It provides a detailed study of climate change, as well as energy, food, and water security across different regions. The author uncovers the problems caused by current social and environmental practices, and offers potential solutions. Focusing on systems theory, footprint analysis, risk, and resilience, many examples are given of how to use resources sustainably, especially common pool resources such as the atmosphere, oceans, and groundwater. The book develops its ideas from an array of practical case studies, centering on communal objectives and shared responsibilities. This volume contains the invited contributions to the Spring 2012 seminar series at Virginia State University on Mathematical Sciences and Applications. It is a thematic continuation of work presented in Volume 24 of the Springer Proceedings in Mathematics & Statistics series. Contributors present their own work as leading researchers to advance their specific fields and induce a genuine interdisciplinary interaction. Thus all articles therein are selective, self-contained, and are pedagogically exposed to foster student interest in science, technology, engineering and mathematics, stimulate graduate and undergraduate research, as well as collaboration between researchers from different areas. The volume features new advances in mathematical research and its applications: anti-periodicity; almost stochastic difference equations; absolute and conditional stability in delayed equations; gamma-convergence and applications to block copolymer morphology; the dynamics of collision and near-collision in celestial mechanics; almost and pseudo-almost limit cycles; rainbows in spheres and connections to ray, wave and potential scattering theory; null-controllability of the heat equation with constraints; optimal control for systems subjected to null-controllability; the Galerkin method for heat transfer in closed channels; wavelet transforms for real-time noise cancellation; signal, image processing and machine learning in medicine and biology; methodology for research on durability, reliability, damage tolerance of aerospace materials and structures at

NASA Langley Research Center. The volume is suitable and valuable for mathematicians, scientists and research students in a variety of interdisciplinary fields, namely physical and life sciences, engineering and technology including structures and materials sciences, computer science for signal, image processing and machine learning in medicine. Every four years since 2004, the Copenhagen Consensus Center has organized and hosted a high profile thought experiment about how a hypothetical extra \$75 billion of development assistance money might best be spent to solve twelve of the major crises facing the world today. Collated in this specially commissioned book, a group of more than 50 experts make their cases for investment, discussing how to combat problems ranging from armed conflicts, corruption and trade barriers, to natural disasters, hunger, education and climate change. For each case, 'Alternative Perspectives' are also included to provide a critique and make other suggestions for investment. In addition, a panel of senior economists, including four Nobel Laureates, rank the attractiveness of each policy proposal in terms of its anticipated cost-benefit ratio. This thought-provoking book opens up debate, encouraging readers to come up with their own rankings and decide which solutions are smarter than others. This three-volume set presents entries and primary sources that will impress on readers that what we do—or don't do—today regarding climate change will dramatically influence what life on this planet will be like for untold numbers of generations.

- Provides readers with a clearly written description of global-warming science and its role in shaping a body of knowledge regarding a worldwide issue that affects everyone
- Suggests remedies for this serious problem, most notably a rapid rise in the implementation of wind power generation and a coming revolution in solar energy
- Impresses on readers that what Americans and the citizens and governments of other nations around the globe do over the next decades will determine the future of this planet for many tens of thousands of years to come
- Includes primary documents sourced from major scientific journals and from the many reports on recent climate change from governmental organizations, including the Intergovernmental Panel on Climate Change (IPCC) and World Meteorological Organization (WMO), both part of the United Nations; and the U.S. government's National Climate Assessment

Focusing on fundamental principles, *Hydro-Environmental Analysis: Freshwater Environments* presents in-depth information about freshwater environments and how they are influenced by regulation. It provides a holistic approach, exploring the factors that impact water quality and quantity, and the regulations, policy and management methods that are necessary to maintain this vital resource. It offers a historical viewpoint as well as an overview and foundation of the physical, chemical, and biological characteristics affecting the management of freshwater environments. The book concentrates on broad and general concepts, providing an interdisciplinary foundation. The author covers the methods of measurement and classification; chemical, physical, and biological characteristics; indicators of ecological health; and management and restoration. He also considers common indicators of environmental health; characteristics and operations of regulatory control structures; applicable laws and regulations; and restoration methods. The text delves into rivers and streams in the first half and lakes and reservoirs in the second half. Each section centers on the characteristics of those systems and methods of classification, and then moves on to discuss the physical, chemical, and biological

characteristics of each. In the section on lakes and reservoirs, it examines the characteristics and operations of regulatory structures, and presents the methods commonly used to assess the environmental health or integrity of these water bodies. It also introduces considerations for restoration, and presents two unique aquatic environments: wetlands and reservoir tailwaters. Written from an engineering perspective, the book is an ideal introduction to the aquatic and limnological sciences for students of environmental science, as well as students of environmental engineering. It also serves as a reference for engineers and scientists involved in the management, regulation, or restoration of freshwater environments. This book presents new research on the geomorphological impacts of extreme precipitation events. It focuses on the extreme summer floods, which affected Central and Eastern Europe in 2010. Case studies on their consequences, including inundations, urban flooding, soil erosion, river bank retreat, alluvial fan accumulation, evolution of karst depressions, debris flows, landslides and soil saturation are presented for Poland, the Czech Republic, Ukraine, Slovakia, Hungary, Romania, Slovenia, Croatia, Serbia, Bulgaria and Macedonia. This key applied geomorphology book is crucial for anyone interested in these processes and their consequences and also for decision makers who face these catastrophes. The situation in Somalia today embodies some of the most pressing issues in international relations. How should the international community deal with the collapsed state that is Somalia? From the presence of al-Qaeda operatives to pirates, to what extent is Somalia a threat to global peace and commerce? Which aspects of Somalia's economic, social and political landscape can be considered successful, and how do these 'success stories' reflect some of the more problematic issues the country faces? This book sheds light on all of these topics and more. The book is written to appeal to a wide audience, from specialists in international security, development and/or humanitarian issues, to students and casual readers. Its six contributing authors, with their focus on current events mixed with historical perspective, ensure readers get varying views of what is happening today in the Horn of Africa. The book was published as a special issue of the Journal of Contemporary African Studies. Development Challenges, South-South Solutions is the monthly e-newsletter for the United Nations Development Programme's South-South Cooperation Unit (www.southerninnovator.org). It has been published every month since 2006. Development Challenges, South-South Solutions is the monthly e-newsletter for the United Nations Development Programme's South-South Cooperation Unit (www.southerninnovator.org). It has been published every month since 2006. Development Challenges, South-South Solutions is the monthly e-newsletter of the United Nations Office for South-South Cooperation in UNDP (www.southerninnovator.org). It has been published every month since 2006. Its sister publication, Southern Innovator magazine, has been published since 2011. Benzylidene Compounds: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Benzylidene Compounds. The editors have built Benzylidene Compounds: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Benzylidene Compounds in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Benzylidene Compounds:

Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Award-winning author Johnson reveals how to take the country back from the politicians and bureaucrats, to restore the American Dream and constitutional rights that have been lost. This collection of papers on research into and management of underground structures in salt formations represents the state-of-the-art on applications of salt mechanics in mines and storage caverns for gas/hydrocarbon, radioactive waste and toxic waste disposal. The contributions cover laboratory experiments, constitutive numerical modeling and field investigations, and deal with creep, damage, thermo-hydro-mechanical and chemical-coupled effects, lessons learnt from real sites and structures and in-situ monitoring. The book is organized into eight topics: • Laboratory investigations and constitutive modeling • Coupled processes and hydro-chemical effects (THMC) • Field measurements and back-analyses • Numerical modeling • Dry mining, post-mining and backfilling • Liquid hydrocarbon storage and brine-production caverns • Gaseous hydrocarbon storage and compressed air energy storage • Hazardous and radioactive waste disposal

Mechanical Behavior of Salt VII will appeal to academics, engineers and professionals involved in salt mechanics. The revised edition of the renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science from principles to applications. Biomaterials Science, fourth edition, provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. This new edition incorporates key updates to reflect the latest relevant research in the field, particularly in the applications section, which includes the latest in topics such as nanotechnology, robotic implantation, and biomaterials utilized in cancer research detection and therapy. Other additions include regenerative engineering, 3D printing, personalized medicine and organs on a chip. Translation from the lab to commercial products is emphasized with new content dedicated to medical device development, global issues related to translation, and issues of quality assurance and reimbursement. In response to customer feedback, the new edition also features consolidation of redundant material to ensure clarity and focus.

Biomaterials Science, 4th edition is an important update to the best-selling text, vital to the biomaterials' community. The most comprehensive coverage of principles and applications of all classes of biomaterials Edited and contributed by the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and updated to address issues of translation, nanotechnology, additive manufacturing, organs on chip, precision medicine and much more. Online chapter exercises available for most chapters The world is at our fingertips, but understanding what is going on has never been more daunting. Garth Massey's Ways of Social Change is a primer for making sense of both rapidly moving events and the cultural and structural forces on which social life is built, while teaching critical thinking skills needed to understand social change. With an approach that is

fresh, timely, challenging, and engaging, *Ways of Social Change* shows students how social change is both a lived experience and the result of our actions in the world. It invites the reader into the realm of social science, where clarification, understanding, and inquiry provide for both informed opinions and a path to effective involvement. The core of the book focuses on five forces that powerfully influence the direction, scope and speed of social change: science and technology, social movements, war and revolution, large corporations, and the state. A concluding chapter encourages students to examine their own perspectives and offers ways to engage in social change, now and in their lifetime.

Karst Hydrogeology, Geomorphology and Caves A Comprehensive Resource Covering All Aspects of Karst Hydrogeology, Geomorphology, and Caves This essential book covers all physical, chemical, and geological aspects of karst science. It reviews current knowledge on hydrogeology, geomorphology and caves in karst, based on the vast existing literature and investigations carried out by the authors worldwide. The different topics are profusely illustrated with color figures and images from all continents and climates, showing the scientific and aesthetic appeal of karst environments. The book covers in a systematic way the significant features of karst rocks, the chemistry and kinetics of their dissolution, the rate and distribution of karst denudation, the unique hydrogeology of karst terrains, the landforms endemic to karst, the morphology of caves and their diverse sedimentary records, and the multiple processes that lead to the formation of underground voids. Overall, the work reflects the increasing recognition of karst as a fundamental part of the Earth's dynamic systems, and helps readers understand this multidisciplinary field from a holistic and nuts-and-bolts perspective. Some of the ideas discussed within the book include: How karst is gaining importance for human development, because of its valuable resources (groundwater) and associated environmental problems (impacts and hazards) The enormous technological developments achieved in recent years Recent major breakthroughs in the field and their influence on other scientific disciplines The central role played by karst science for understanding and mitigating global environmental issues (global warming, depletion of resources, human-induced hazards) For all scientists working in karst, and for students and lecturers of karst-related programs, this book serves as a valuable all-in-one source. It is also a valuable resource for professional hydrogeologists, the petroleum industry, environmental geologists, and of course speleologists, the last true geographic explorers in the world.

Rome and the Classic Maya- Front Cover -- Rome and the Classic Maya -- Title Page -- Copyright Page -- Contents -- List of figures -- List of tables -- Preface -- Introduction -- Chapter 1: The Concept of Slow Collapse -- A Parable for Our Time? -- How Our Model of Collapse Plays Out -- Chapter 2: The "Flood" of Catastrophe Books and Rethinking the Concept of Collapse -- Other Books on Collapse -- Is the Concern for Collapse Overblown? -- Chapter 3: Introduction to the Case Studies: The Archaeological Evidence -- Archaeology and the Fall of Rome -- The Archaeology of Decline -- Archaeological Evidence for Diminution of Occupied Sites -- Archaeological Evidence for the Drop in Standard of Living -- The Classic Maya Collapse -- The Postclassic Maya World -- Maya Collapse Dissections -- Summary -- Chapter 4: The Political Economy of Collapse -- Introduction -- The Roman Empire -- The Classic Maya -- Summary -- Chapter 5: The Political Dimension of Collapse -- Introduction -- The Roman

Empire -- The Classic Maya -- Summary -- Chapter 6: The Social Dimension of Collapse -- Introduction -- The Roman Empire -- The Classic Maya -- Summary -- Chapter 7: The Environmental Dimension of Collapse -- The Roman Empire -- The Classic Maya -- Health and Environment in the Maya Lowlands and Roman Empire -- Summary -- Chapter 8: The Validity of the Concept of "Slow Collapse" and Human Resilience -- Conclusion to the Roman Case Study -- Conclusion to the Classic Maya Case Study -- Terminology: Last Thoughts -- Two Final Heresies -- Lessons for the Future -- A Real Problem: An Increasing Gap between Rich and Poor -- Final Words -- References -- Index.

The revolutionary discovery of thousands of confirmed and candidate planets beyond the solar system brings forth the most fundamental question: How do planets and their host stars form and evolve? *Protostars and Planets VI* brings together more than 250 contributing authors at the forefront of their field, conveying the latest results in this research area and establishing a new foundation for advancing our understanding of stellar and planetary formation. Continuing the tradition of the *Protostars and Planets* series, this latest volume uniquely integrates the cross-disciplinary aspects of this broad field. Covering an extremely wide range of scales, from the formation of large clouds in our Milky Way galaxy down to small chondrules in our solar system, *Protostars and Planets VI* takes an encompassing view with the goal of not only highlighting what we know but, most importantly, emphasizing the frontiers of what we do not know. As a vehicle for propelling forward new discoveries on stars, planets, and their origins, this latest volume in the Space Science Series is an indispensable resource for both current scientists and new students in astronomy, astrophysics, planetary science, and the study of meteorites.

Issues in Bioengineering and Bioinformatics: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Bioengineering and Bioinformatics. The editors have built *Issues in Bioengineering and Bioinformatics: 2011 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Bioengineering and Bioinformatics in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Issues in Bioengineering and Bioinformatics: 2011 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Volume is indexed by Thomson Reuters CPCI-S (WoS). The collection covers a broad spectrum of topics related to civil infrastructure engineering, which range from structural engineering, bridge engineering, geotechnical engineering, wind engineering, tunnels, subways and underground facilities, seismic engineering and disaster prevention and mitigation and protection engineering. The volume provided an excellent opportunity to discuss the challenges we are facing with our ever ageing civil infrastructure. Human-driven greenhouse emissions are increasing the velocity of climate change and the frequency and intensity of climate extremes far above historical levels. These changes, along with other human-perturbations, are setting the conditions for more rapid and abrupt ecosystem dynamics and collapse. This book presents

new evidence on the rapid emergence of ecosystem collapse in response to the progression of anthropogenic climate change dynamics that are expected to intensify as the climate continues to warm. Discussing implications for biodiversity conservation, the chapters provide examples of such dynamics globally covering polar and boreal ecosystems, temperate and semi-arid ecosystems, as well as tropical and temperate coastal ecosystems. Given its scope, the volume appeals to scientists in the fields of general ecology, terrestrial and coastal ecology, climate change impacts, and biodiversity conservation. This book comprehensively addresses the economic and social implications of the COVID-19 pandemic. In each chapter of the book, the effects of the pandemic on different economic and financial sectors are discussed. The book tackles many topics and issues that are of relevance in the post-pandemic world. Some of these issues are the effects of the pandemic on countries' budgets, tax systems, financial and economic policies, and management, in addition, the evaluation of the pandemic in terms of migration and refugees, the historic comparison of its effects with other pandemics, the social media reflections of the pandemic and the global governance discussions. The book also considers the effects of pandemic on the use of digital currencies and the effects of digitalization of employment and robot employment. The rigorous mathematical theory of the equations of fluid dynamics has been a focus of intense activity in recent years. This volume is the product of a workshop held at the University of Warwick to consolidate, survey and further advance the subject. The Navier–Stokes equations feature prominently: the reader will find new results concerning feedback stabilisation, stretching and folding, and decay in norm of solutions to these fundamental equations of fluid motion. Other topics covered include new models for turbulent energy cascade, existence and uniqueness results for complex fluids and certain interesting solutions of the SQG equation. The result is an accessible collection of survey articles and more traditional research papers that will serve both as a helpful overview for graduate students new to the area and as a useful resource for more established researchers. Development Challenges, South-South Solutions is the monthly e-newsletter for the United Nations Development Programme's South-South Cooperation Unit (www.southerninnovator.org). It has been published every month since 2006. The deadly May 31, 2010 Gaza flotilla incident has been misunderstood. This book explores the incident in more detail than mainstream media coverage has allowed—explaining the background, key players, and the incident itself—enriched by the authors having had unique access to senior Israeli officials in the immediate aftermath of the event. The incident is a microcosm of the struggle between terrorism and democratic societies, and raises a number of legal, ethical, and strategic political issues in the contemporary Middle East. Chapters address the political and military scenario preceding the incident, key state and non-state actors involved, military and ethical dimensions of the operation, and the aftermath in the media and politics. The book provides thoughtful and readable analysis that is useful to policy makers and to the general public, and draws some important conclusions for the continuing conflict between democratic states and terrorists and their sponsors. Questioning Collapse challenges those scholars and popular writers who advance the thesis that societies - past and present - collapse because of behavior that destroyed their environments or because of overpopulation. In a series of highly accessible and closely argued essays, a team of internationally

recognized scholars bring history and context to bear in their radically different analyses of iconic events, such as the deforestation of Easter Island, the cessation of the Norse colony in Greenland, the faltering of nineteenth-century China, the migration of ancestral peoples away from Chaco Canyon in the American southwest, the crisis and resilience of Lowland Maya kingship, and other societies that purportedly 'collapsed'. Collectively, these essays demonstrate that resilience in the face of societal crises, rather than collapse, is the leitmotif of the human story from the earliest civilizations to the present. Scrutinizing the notion that Euro-American colonial triumphs were an accident of geography, *Questioning Collapse* also critically examines the complex historical relationship between race and political labels of societal 'success' and 'failure'.

Continuum Mechanics is the foundation for *Applied Mechanics*. There are numerous books on *Continuum Mechanics* with the main focus on the macroscale mechanical behavior of materials. Unlike classical *Continuum Mechanics* books, this book summarizes the advances of *Continuum Mechanics* in several defined areas. Emphasis is placed on the application aspect. The applications described in the book cover energy materials and systems (fuel cell materials and electrodes), materials removal, and mechanical response/deformation of structural components including plates, pipelines etc. Researchers from different fields should be benefited from reading the mechanics approached to real engineering problems. Give students the essential thinking skills they need to thrive. Exclusively content-focused teaching may improve test scores, but it leaves students without the cognitive skills for success in an information-overloaded world where deep thinking, collaborative problem solving, and emotional intelligence is essential. In this book, David Hyerle presents case studies of schools and educators who have applied these powerful models, in some case system-wide, to remedy this situation, including: Visual learning tools including Hyerle's renowned Thinking Maps A language for students to improve their intellectual-emotional behaviors as they learn A system for developing students' abilities to ask questions in the context of a developing Community of Inquiry

Mechanics of Structures and Materials: Advancements and Challenges is a collection of peer-reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials (ACMSM24, Curtin University, Perth, Western Australia, 6-9 December 2016). The contributions from academics, researchers and practising engineers from Australasian, Asia-pacific region and around the world, cover a wide range of topics, including:

- Structural mechanics
- Computational mechanics
- Reinforced and prestressed concrete structures
- Steel structures
- Composite structures
- Civil engineering materials
- Fire engineering
- Coastal and offshore structures
- Dynamic analysis of structures
- Structural health monitoring and damage identification
- Structural reliability analysis and design
- Structural optimization
- Fracture and damage mechanics
- Soil mechanics and foundation engineering
- Pavement materials and technology
- Shock and impact loading
- Earthquake loading
- Traffic and other man-made loadings
- Wave and wind loading
- Thermal effects

Mechanics of Structures and Materials: Advancements and Challenges will be of interest to academics and professionals involved in Structural Engineering and Materials Science. In this lively survey, Guy D. Middleton critically examines our ideas about collapse - how we explain it and how we have constructed potentially misleading myths around collapses - showing how and why

collapse of societies was a much more complex phenomenon than is often admitted. There are essentially two theories of solutions that can be considered exact: the McMillan–Mayer theory and Fluctuation Solution Theory (FST). The first is mostly limited to solutes at low concentrations, while FST has no such issue. It is an exact theory that can be applied to any stable solution regardless of the number of components and their concentrations, and the types of molecules and their sizes. Fluctuation Theory of Solutions: Applications in Chemistry, Chemical Engineering, and Biophysics outlines the general concepts and theoretical basis of FST and provides a range of applications described by experts in chemistry, chemical engineering, and biophysics. The book, which begins with a historical perspective and an introductory chapter, includes a basic derivation for more casual readers. It is then devoted to providing new and very recent applications of FST. The first application chapters focus on simple model, binary, and ternary systems, using FST to explain their thermodynamic properties and the concept of preferential solvation. Later chapters illustrate the use of FST to develop more accurate potential functions for simulation, describe new approaches to elucidate microheterogeneities in solutions, and present an overview of solvation in new and model systems, including those under critical conditions. Expert contributors also discuss the use of FST to model solute solubility in a variety of systems. The final chapters present a series of biological applications that illustrate the use of FST to study cosolvent effects on proteins and their implications for protein folding. With the application of FST to study biological systems now well established, and given the continuing developments in computer hardware and software increasing the range of potential applications, FST provides a rigorous and useful approach for understanding a wide array of solution properties. This book outlines those approaches, and their advantages, across a range of disciplines, elucidating this robust, practical theory.

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