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Molybdenum-99 for Medical Imaging National Academies of Sciences, Engineering, and Medicine 2016-10-28 The decay product of the medical isotope molybdenum-99 (Mo-99), technetium-99m (Tc-99m), and associated medical isotopes iodine-131 (I-131) and xenon-133 (Xe-133) are used worldwide for medical diagnostic imaging or therapy. The United States consumes about half of the world's supply of Mo-99, but there has been no domestic (i.e., U.S.-based) production of this isotope since the late 1980s. The United States imports Mo-99 for domestic use from Australia, Canada, Europe, and South Africa. Mo-99 and Tc-99m cannot be stockpiled for use because of their short half-lives. Consequently, they must be routinely produced and delivered to medical imaging centers. Almost all Mo-99 for medical use is produced by irradiating highly enriched uranium (HEU) targets in research reactors, several of which are over 50 years old and are approaching the end of their operating lives. Unanticipated and extended shutdowns of some of these old reactors have resulted in severe Mo-99 supply shortages in the United States and other countries. Some of these shortages have disrupted the delivery of medical care. Molybdenum-99 for Medical Imaging examines the production and utilization of Mo-99 and associated medical isotopes, and provides recommendations for medical use.

The Patient Will See You Now Eric Topol 2016-10-25 The essential guide by one of America's leading doctors to how digital technology enables all of us to take charge of our health A trip to the doctor is almost a guarantee of misery. You'll make an appointment months in advance. You'll probably wait for several hours until you hear "the doctor will see you now"-but only for fifteen minutes! Then you'll wait even longer for lab tests, the results of which you'll likely never see, unless they indicate further (and more invasive) tests, most of which will probably prove unnecessary (much like physicals themselves). And your bill will be astronomical. In The Patient Will See You Now, Eric Topol, one of the nation's top physicians, shows why medicine does not have to be that way. Instead, you could use your smartphone to get rapid test results from one drop of blood, monitor your vital signs both day and night, and use an artificially intelligent algorithm to receive a diagnosis without having to see a doctor, all at a small fraction of the cost imposed by our modern healthcare system. The change is powered by what Topol calls medicine's "Gutenberg moment." Much as the printing press took learning out of the hands of a priestly class, the mobile internet is doing the same for medicine, giving us unprecedented control over our healthcare. With smartphones in hand, we are no longer beholden to an impersonal and paternalistic system in which "doctor knows best." Medicine has been digitized, Topol argues; now it will be democratized. Computers will replace physicians for many diagnostic tasks, citizen science will give rise to citizen medicine, and enormous data sets will give us new means to attack conditions that have long been incurable. Massive, open, online medicine, where diagnostics are done by Facebook-like comparisons of medical profiles, will enable real-time, real-world research on massive populations. There's no doubt the path forward will be complicated: the medical establishment will resist these changes, and digitized medicine inevitably raises serious issues surrounding privacy. Nevertheless, the result-better, cheaper, and more human health care-will be worth it. Provocative and engrossing, The Patient Will See You Now is essential reading for anyone who thinks they deserve better health care. That is, for all of us.

Critical Role of Animal Science Research in Food Security and Sustainability National Research Council 2015-03-31 By 2050 the world's population is projected to grow by one-third, reaching between 9 and 10 billion. With globalization and expected growth in global affluence, a substantial increase in per capita meat, dairy, and fish consumption is also anticipated. The demand for calories from animal products will nearly double, highlighting the critical importance of the world's animal agriculture system. Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production. Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security. Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development, technology, and resource needs for research in the field of animal agriculture, both nationally and internationally. This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security; evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems; and identifies factors that may impact the ability of the United States to meet demand for animal products, including the need for trained human capital, product safety and quality, and effective communication and adoption of new knowledge, information, and technologies. The agricultural sector worldwide faces numerous daunting challenges that will require innovations, new technologies, and new ways of approaching agriculture if the food, feed, and fiber needs of the global population are to be met. The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century.

The Content Trap Bharat Anand 2016-10-18 "My favorite book of the year."—Doug McMillon, CEO, Wal-Mart Stores Harvard Business School Professor of Strategy Bharat Anand presents an incisive new approach to digital transformation that favors fostering connectivity over focusing exclusively on content. NAMED ONE OF THE BEST BOOKS OF THE YEAR BY BLOOMBERG Companies everywhere face two major challenges today: getting noticed and getting paid. To confront these obstacles, Bharat Anand examines a range of businesses around the world, from The

New York Times to The Economist, from Chinese Internet giant Tencent to Scandinavian digital trailblazer Schibsted, and from talent management to the future of education. Drawing on these stories and on the latest research in economics, strategy, and marketing, this refreshingly engaging book reveals important lessons, smashes celebrated myths, and reorients strategy. Success for flourishing companies comes not from making the best content but from recognizing how content enables customers' connectivity; it comes not from protecting the value of content at all costs but from unearthing related opportunities close by; and it comes not from mimicking competitors' best practices but from seeing choices as part of a connected whole. Digital change means that everyone today can reach and interact with others directly: We are all in the content business. But that comes with risks that Bharat Anand teaches us how to recognize and navigate. Filled with conversations with key players and in-depth dispatches from the front lines of digital change, *The Content Trap* is an essential new playbook for navigating the turbulent waters in which we find ourselves. Praise for *The Content Trap* "A masterful and thought-provoking book that has reshaped my understanding of content in the digital landscape."—Ariel Emanuel, co-CEO, WME | IMG "The Content Trap is a book filled with stories of businesses, from music companies to magazine publishers, that missed connections and could never escape the narrow views that had brought them past success. But it is also filled with stories of those who made strategic choices to strengthen the links between content and returns in their new master plans. . . . The book is a call to clear thinking and reassessing why things are the way they are."—The Wall Street Journal

Open Science: the Very Idea Frank Miedema 2021-10-29 This open access book provides a broad context for the understanding of current problems of science and of the different movements aiming to improve the societal impact of science and research. The author offers insights with regard to ideas, old and new, about science, and their historical origins in philosophy and sociology of science, which is of interest to a broad readership. The book shows that scientifically grounded knowledge is required and helpful in understanding intellectual and political positions in various discussions on the grand challenges of our time and how science makes impact on society. The book reveals why interventions that look good or even obvious, are often met with resistance and are hard to realize in practice. Based on a thorough analysis, as well as personal experiences in aids research, university administration and as a science observer, the author provides - while being totally open regarding science's limitations- a realistic narrative about how research is conducted, and how reliable 'objective' knowledge is produced. His idea of science, which draws heavily on American pragmatism, fits in with the global Open Science movement. It is argued that Open Science is a truly and historically unique movement in that it translates the analysis of the problems of science into major institutional actions of system change in order to improve academic culture and the impact of science, engaging all actors in the field of science and academia.

The Women of Orphan Black Valerie Estelle Frankel 2018-04-11 Orphan Black's Tatiana Maslany plays a host of the show's main characters, all clones of an illegal experiment. The mighty heroines save one another and destroy the patriarchy while subverting gender expectations. The feminist clones are Sarah, who clashes with her radical feminist foster-mother; Alison, the quintessential post-feminist housewife; Cosima, a second-wave feminist lesbian; Beth, a third-wave feminist bogged down by addiction; and M.K., a fourth-wave feminist who tackles the hardships of disability through the Internet. The book explores the women's war against corporate power and how it relates to the science and ethics surrounding cloning.

Chemistry and Technology of Natural and Synthetic Dyes and Pigments Ashis Kumar Samanta 2020-09-30 This book on 'Chemistry and Technology of Natural and Synthetic Dyes and Pigments' is a priority publication by IntechOpen publisher and it relates to sustainable approaches towards green chemical processing of textiles, specifically on dyeing with natural dyes and pigments as well as dyeing with eco-safe synthetic dyes and chemicals. This book includes the following chapters: an introductory editorial chapter on bio-mordants, bio-dyes and bio-finishes, a review of natural dyes and pigments and its application, pantone-like shade generation with natural colorants, colour-based natural dyes and pigments, printing with natural dyes and pigments, functional property and functional finishes with natural dyes and pigments, eco-safe synthetic dyes and chemicals, and a miscellaneous review on dyed textiles and clothing including natural dye-based herbal textiles. This new book is expected to be useful for dyers of the textile industry as well as to the future researchers in this field.

Georgetown Journal of International Affairs Medha Raj 2014-09-08 According to the United Nations, 9.6 billion people will inhabit our planet by 2050. Population growth and movement will have an enormous impact on global dynamics in the twenty-first century, in both the developing world as well as in advanced industrialized societies. In light of this global demographic reality, this issue of the *Georgetown Journal of International Affairs* focuses on the topic of "Destabilizing Demographics," exploring the opportunities and challenges presented by dynamic population patterns and structures. Demographic shifts affect multiple facets of international affairs, impacting economies, modifying politics, and reshaping the fabric of our societies. These changes could have catastrophic international consequences if ignored or evaded. However, as this issue's Forum demonstrates, the future holds promise for those who choose to reorganize on the cusp of significant population transformation. Adaptation as a form of mitigation must be informed by diverse solutions and multi-sectoral cooperation. Consider, for example, the intersection of family planning and climate change, or the connection between gender gaps and crime. Through pragmatic policymaking and international collaboration, seismic demographic change may not necessitate disaster. We round out this issue with articles regarding decidedly twenty-first century concerns: communication, integration, and globalization. Moha Ennaji describes the challenges of Berber language incorporation in Morocco and its significance to democratic reform. Dan Saxon examines the role of human judgment in semi-autonomous weapons use, questioning the ethics of unmanned machines. Andrés Monroy-Hernández and Luis Daniel Palacios analyze the utility, efficacy, and implications of citizen journalism within Mexico's ongoing drug war. And Lawrence Gostin and Alexandra Phelan explore how, in an increasingly interconnected world, the international community can collectively prevent and control the spread of infectious diseases. The *Georgetown Journal of International Affairs* is the official publication of the Edmund A. Walsh School of Foreign Service at Georgetown University. Each issue of the journal provides readers with a diverse array of timely, peer-reviewed content penned by top policymakers, business leaders, and academic luminaries. The Journal takes a holistic approach to international affairs and features a 'Forum' that offers focused analysis on a specific key issue with each new edition of the publication, as well as nine regular sections: Books, Business & Economics, Conflict & Security, Culture & Society, Law & Ethics, A Look Back, Politics & Diplomacy, Science & Technology, and View from the Ground.

Understanding Anesthetic Equipment & Procedures Dwarkadas K Baheti 2018-03-31 This new edition presents practising and trainee anaesthesiologists with the latest advances and guidelines in their field. Beginning with an introduction to the history of anaesthesia, basic physics, and medical gases, the following sections cover the anaesthesia machine, airway and monitoring equipment, and apparatus for central neuraxial and regional blocks. The final chapters discuss interpretation of radiological images, simulators in anaesthesia, maintenance, safety and cleaning; and more. The second edition has been fully revised to provide up to date information and a clear understanding of practices and techniques for anaesthesia. The book features clinical photographs and diagrams and includes two interactive DVD ROMs demonstrating and explain day to day anaesthetic procedures. Key points Fully revised, new edition presenting latest techniques and information in

anaesthesia Covers all different aspects of equipment in depth Includes DVD ROMs demonstrating anaesthetic procedures Previous edition (9789351521242) published in 2014

How Should Humanity Steer the Future? Anthony Aguirre 2015-09-18 The fourteen award-winning essays in this volume discuss a range of novel ideas and controversial topics that could decisively influence the course of human life on Earth. Their authors address, in accessible language, issues as diverse as: enabling our social systems to learn; research in biological engineering and artificial intelligence; mending and enhancing minds; improving the way we do, and teach, science; living in the here and now; and the value of play. The essays are enhanced versions of the prize-winning entries submitted to the Foundational Questions Institute (FQXi) essay competition in 2014. FQXi, catalyzes, supports, and disseminates research on questions at the foundations of physics and cosmology, particularly new frontiers and innovative ideas integral to a deep understanding of reality, but unlikely to be supported by conventional funding sources.

Global Health Informatics Heimar Marin 2016-12-08 Global Health Informatics: How Information Technology Can Change Our Lives in a Globalized World discusses the critical role of information and communication technologies in health practice, health systems management and research in increasingly interconnected societies. In a global interconnected world the old standalone institutional information systems have proved to be inadequate for patient-centered care provided by multiple providers, for the early detection and response to emerging and re-emerging diseases, and to guide population-oriented public health interventions. The book reviews pertinent aspects and successful current experiences related to standards for health information systems; digital systems as a support for decision making, diagnosis and therapy; professional and client education and training; health systems operation; and intergovernmental collaboration. Discusses how standalone systems can compromise health care in globalized world Provides information on how information and communication technologies (ICT) can support diagnose, treatment, and prevention of emerging and re-emerging diseases Presents case studies about integrated information and how and why to share data can facilitate governance and strategies to improve life conditions

Research Handbook on Intellectual Property and the Life Sciences Duncan Matthews 2017-06-30 Intellectual property (IP) is a key component of the life sciences, one of the most dynamic and innovative fields of technology today. At the same time, the relationship between IP and the life sciences raises new public policy dilemmas. The Research Handbook on Intellectual Property and the Life Sciences comprises contributions by leading experts from academia and industry to provide in-depth analyses of key topics including pharmaceuticals, diagnostics and genes, plant innovations, stem cells, the role of competition law and access to medicines. The Research Handbook focuses on the relationship between IP and the life sciences in Europe and the United States, complemented by country-specific case studies on Australia, Brazil, China, India, Japan, Kenya, South Africa and Thailand to provide a truly international perspective.

Reading the Animal Text in the Landscape of the Damned Mitchell, Les 2019-10-22 Reading the animal text in the landscape of the damned looks at the diverse texts of our everyday world relating to nonhuman animals and examines the meanings we imbibe from them. It describes ways in which we can explore such artefacts, especially from the perspective of groups and individuals with little or no power. This work understands the oppression of nonhuman animals as being part of a spectrum incorporating sexism, racism, xenophobia, economic exploitation and other forms of oppression. The enquiry includes, physical landscapes, the law, women's rights, history, slavery, language use, economic coercion, farming, animal experimentation and much more. Reading the animal text in the landscape of the damned is an academic work but is accessible, theoretically based but robustly practical and it encourages the reader to take this enquiry further for both themselves and for others.

Future City Architecture for Optimal Living Stamatina Th. Rassia 2015-04-01 This book offers a wealth of interdisciplinary approaches to urbanization strategies in architecture centered on growing concerns about the future of cities and their impacts on essential elements of architectural optimization, livability, energy consumption and sustainability. It portrays the urban condition in architectural terms, as well as the living condition in human terms, both of which can be optimized by mathematical modeling as well as mathematical calculation and assessment. Special features include: • new research on the construction of future cities and smart cities • discussions of sustainability and new technologies designed to advance ideas to future city developments Graduate students and researchers in architecture, engineering, mathematical modeling, and building physics will be engaged by the contributions written by eminent international experts from a variety of disciplines including architecture, engineering, modeling, optimization, and related fields.

Selected Papers from the 3rd International Symposium on Life Science Valentin A. Stonik 2020-12-10 This book contains information for specialists in various fields of science. From the point of view of pharmacology, data are reported regarding the effect of echinochrome A and related metabolites from sea urchins on the survival and functional properties of stem cells, which can facilitate ex vivo application of this compound in medicine. For scientists who isolate and establish structures of marine natural compounds, an article devoted to the proof of the microbial origin of a typical metabolite earlier found exclusively from marine invertebrates, 6-epi-monanchorin, may also be of interest. A range of new marine metabolites was discovered from the both marine invertebrates and marine microorganisms, particularly in marine isolates of fungi. Some marine natural products could be applied to treat such diseases as Parkinson's disease, ischemic stroke, viral infections, and so on. Magnificamide, a new peptide from sea anemones, inhibits porcine and human saliva amylases, showing its probable antidiabetic properties. Application of the genomic approach was discussed in studies on various marine bacteria, producing marine enzymes with unusual specificity. The lectins capable of recognizing glycoforms of different substrates demonstrate the possibility to be used to elaborate new medical diagnostics.

DRHA2014 Proceedings / Full Papers Anastasios Maragiannis

Lewis's Medical-Surgical Nursing Diane Brown 2017-03-25 Perfect for: • Undergraduate Nursing Students • Postgraduate Specialist Nursing Pathways (Advanced Medical Surgical Nursing) • TAFE Bachelor of Nursing Program Lewis's Medical-Surgical Nursing: Assessment and Management of Clinical Problems, 4th Edition is the most comprehensive go-to reference for essential information about all aspects of professional nursing care of patients. Using the nursing process as a framework for practice, the fourth edition has been extensively revised to reflect the rapid changing nature of nursing practice and the increasing focus on key nursing care priorities. Building on the strengths of the third Australian and New Zealand edition and incorporating relevant global nursing research and practice from the prominent US title Medical-Surgical Nursing, 9th Edition, Lewis's Medical-Surgical Nursing, 4th Edition is an essential resource for students seeking to understand the role of the professional nurse in the contemporary health environment. 49 expert contributors from Australia and New Zealand Current research data and Australian and New Zealand statistics Focus on evidence-based practice Review questions and clinical reasoning exercises Evolve Resources for instructor and student, including quick quiz's, test banks, review questions, image gallery and videos. • Chapter on current national patient safety and clinical reasoning • Over 80 new and revised case studies • Chapter on rural and remote area nursing • Fully revised chapter on chronic illness and complex care • Chapter on patient safety and clinical reasoning • Greater emphasis on contemporary health issues, such as obesity and emergency and disaster nursing • Australia and New

Zealand sociocultural focus

The International Journal of Indian Psychology, Volume 3, Issue 4, No. 67 IJIP. In 2016-09-23

Future Spacecraft Propulsion Systems and Integration Paul A. Czysz 2017-08-30 The updated and expanded third edition of this book focuses on the multi-disciplinary coupling between flight-vehicle hardware alternatives and enabling propulsion systems. It discusses how to match near-term and far-term aerospace vehicles to missions and provides a comprehensive overview of the subject, directly contributing to the next-generation space infrastructure, from space tourism to space exploration. This holistic treatment defines a mission portfolio addressing near-term to long-term space transportation needs covering sub-orbital, orbital and escape flight profiles. In this context, a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access. A best-practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission. This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike.

Innovative Research in Life Sciences E. Andrew Balas 2018-11-08 "I thoroughly enjoyed reading this book as it has taken me on a journey through time, across the globe and through multiple disciplines. Indeed, we need to be thinking about these concepts and applying them every day to do our jobs better." Farah Magrabi, Macquarie University, Australia "The reader will find intriguing not only the title but also the content of the book. I'm also pleased that public health, and even more specifically epidemiology has an important place in this ambitious discussion." Elena Andresen, Oregon Health & Science University, USA "This book is very well written and addresses an important topic. It presents many reasons why basic scientists/researchers should establish collaborations and access information outside traditional means and not limit thinking but rather expand such and perhaps develop more innovative and translational research ventures that will advance science and not move it laterally." Gerald Pepe, Eastern Virginia Medical School, USA "This book gathers logically and presents interestingly (with many examples) the qualities and attitudes a researcher must possess in order to become successful. On the long run, the deep and carefully reexamined research will be the one that lasts." Zoltán Néda, Babeş-Bolyai University, Romania "I really liked the five pillars delineating the components of humanism in research. This book has made a major contribution to the research ethics literature." David Fleming, University of Missouri, USA A comprehensive review of the research phase of life sciences from design to discovery with suggestions to improve innovation This vital resource explores the creative processes leading to biomedical innovation, identifies the obstacles and best practices of innovative laboratories, and supports the production of effective science. Innovative Research in Life Sciences draws on lessons from 400 award-winning scientists and research from leading universities. The book explores the innovative process in life sciences and puts the focus on how great ideas are born and become landmark scientific discoveries. The text provides a unique resource for developing professional competencies and applied skills of life sciences researchers. The book examines what happens before the scientific paper is submitted for publication or the innovation becomes legally protected. This phase is the most neglected but most exciting in the process of scientific creativity and innovation. The author identifies twelve competencies of innovative biomedical researchers that described and analyzed. This important resource: Highlights the research phase from design to discovery that precedes innovation disclosure Offers a step by step explanation of how to improve innovation Offers solutions for improving research and innovation productivity in the life sciences Contains a variety of statistical databases and a vast number of stories about individual discoveries Includes a process of published studies and national statistics of biomedical research and reviews the performance of research labs and academic institutions Written for academics and researchers in biomedicine, pharmaceutical science, life sciences, drug discovery, pharmacology, Innovative Research in Life Sciences offers a guide to the creative processes leading to biomedical innovation and identifies the best practices of innovative scientists and laboratories.

Transfer Cells David McCurdy 2015-05-18 Transfer cells are anatomically specialized cells optimized to support high levels of nutrient transport in plants. These cells trans-differentiate from existing cell types by developing extensive and localized wall ingrowth labyrinths to amplify plasma membrane surface area which in turn supports high densities of membrane transporters. Unsurprisingly, therefore, transfer cells are found at key anatomical sites for nutrient acquisition, distribution and exchange. Transfer cells are involved in delivery of nutrients between generations and in the development of reproductive organs and also facilitate the exchange of nutrients that characterize symbiotic associations. Transfer cells occur across all taxonomic groups in higher plants and also in algae and fungi. Deposition of wall ingrowth-like structures are also seen in "syncytia" and "giant cells" which function as feeding sites for cyst and root-knot nematodes, respectively, following their infection of roots. Consequently, the formation of highly localized wall ingrowth structures in diverse cell types appears to be an ancient anatomical adaptation to facilitate enhanced rates of apoplasmic transport of nutrients in plants. In some systems a role for transfer cells in the formation of an anti-pathogen protective barrier at these symplastic discontinuities has been inferred. Remarkably, the extent of cell wall ingrowth development at a particular site can show high plasticity, suggesting that transfer cell differentiation might be a dynamic process adapted to the transport requirements of each physiological condition. Recent studies exploiting different experimental systems to investigate transfer cell biology have identified signaling pathways inducing transfer cell development and genes/gene networks that define transfer cell identity and/or are involved in building the wall ingrowth labyrinths themselves. Further studies have defined the structure and composition of wall ingrowths in different systems, leading in many instances to the conclusion that this process may involve previously uncharacterized mechanisms for localized wall deposition in plants. Since transfer cells play important roles in plant development and productivity, the latter being relevant to crop yield, especially so in major agricultural species such as wheat, barley, soybean and maize, understanding the molecular and cellular events leading to wall ingrowth deposition holds exciting promise to develop new strategies to improve plant performance, a key imperative in addressing global food security. This Research Topic presents a timely and comprehensive treatise on transfer cell biology to help define critical questions for future research and thereby generating a deeper understanding of these fascinating and important cells in plant biology.

Assembling Arguments Jonathan Buehl 2016-01-20 Scientific arguments—and indeed arguments in most disciplines—depend on visuals and other nontextual elements; however, most models of argumentation typically neglect these important resources. In *Assembling Arguments*, Jonathan Buehl offers a concentrated study of scientific argumentation that is sensitive to both the historical and theoretical possibilities of multimodal persuasion as it advances two related claims. First, rhetorical theory—when augmented with methods for reading nonverbal representations—can provide the analytical tools needed to understand and appreciate multimodal scientific arguments. Second, science—an inherently multimodal enterprise—offers ideal subjects for developing general theories of multimodal rhetoric applicable across fields. In developing these claims, Buehl offers a comprehensive account of scientific persuasion as a multimodal process and develops a simple but productive framework for analyzing and teaching multimodal argumentation. Comprising five case studies, the book provides detailed treatments of argumentation in specific technological and historical contexts: argumentation before World War I, when images circulated by hand and by post; argumentation during the mid-twentieth century, when computers were beginning to bolster scientific inquiry

but images remained hand-crafted products; and argumentation at the turn of the twenty-first century—an era of digital revolutions and digital fraud. Each study examines the rhetorical problems and strategies of specific scientists to investigate key issues regarding visualization and argument: 1) establishing new instruments as reliable sources of visual evidence; 2) creating novel arguments from reliable visual evidence; 3) creating novel arguments with unreliable visual evidence; 4) preserving the credibility of visualization practices; and 5) creating multimodal artifacts before and in the era of digital circulation. Given the growing enterprise of rhetorical studies and the field's contributions to communication practices in all disciplines, rhetoricians need a comprehensive rhetoric of science—one that accounts for the multimodal arguments that change our relation to reality. *Assembling Arguments* argues that such rhetoric should enable the interpretation of visual scientific arguments and improve science-writing instruction.

Boosting Pharmaceutical Innovation in the Post-TRIPS Era Burcu Kiliç 2014-07-31 *Boosting Pharmaceutical Innovation In The Post-TRIPS Era* investigates the concept of innovation and illustrates the crucial role that patent strategies play within processes of pharmaceutical innovation. Drawing on extensive country and company case studies, it identifies the key issues relevant to the revival of local pharmaceutical industries.

Societal Benefits of Freely Accessible Technologies and Knowledge Resources Terán, Oswaldo 2015-04-30 Open access to information resources and technology can have a profound impact on the economic development of a region as well as society in general. In recent years, reaction against proprietary knowledge and technology has led to tremendous debate both in academic and professional circles. *Societal Benefits of Freely Accessible Technologies and Knowledge Resources* analyzes current perspectives on the advantages of unrestricted access to information resources and technology intended to advance the prospect for knowledge, innovation, and development across the globe. Touching on topics of relevance to the private and public sectors, this publication is ideally designed for use by policymakers, business managers, academicians, researchers, students, IT practitioners, and legal professionals.

Structural Differentiation in Social Media Sorin Adam Matei 2017-09-20 *div*This book explores community dynamics within social media. Using Wikipedia as an example, the volume explores communities that rely upon commons-based peer production. Fundamental theoretical principles spanning such domains as organizational configurations, leadership roles, and social evolutionary theory are developed. In the context of Wikipedia, these theories explain how a functional elite of highly productive editors has emerged and why they are responsible for a majority of the content. It explains how the elite shapes the project and how this group tends to become stable and increasingly influential over time. Wikipedia has developed a new and resilient social hierarchy, an adhocracy, which combines features of traditional and new, online, social organizations. The book presents a set of practical approaches for using these theories in real-world practice. This work fundamentally changes the way we think about social media leadership and evolution, emphasizing the crucial contributions of leadership, of elite social roles, and of group global structure to the overall success and stability of large social media projects. Written in an accessible and direct style, the book will be of interest to academics as well as professionals with an interest in social media and commons-based peer production processes.

Scientific Approaches to Literature in Learning Environments Michael Burke 2016-07-22 *Scientific Approaches to Literature in Learning Environments* is not just about what takes place in literary classrooms. Settings do have a strong influence on student learning both directly and indirectly. These spaces may include the home, the workplace, science centers, libraries, that is, contexts that entail diverse social, physical, psychological, and pedagogical variables that facilitate learning, for example, by grouping desks in specific ways, utilizing audio, visual, and digital technologies. *Scientific Approaches to Literature in Learning Environments* puts together a series of empirical research studies on the different locations of teaching and learning. These studies represent literary learning environment throughout the world, including Brazil, the USA, China, Canada, Japan and several European countries such as the Netherlands, Ukraine, the UK and Malta. The studies reported describe quantitative and/or qualitative research and cover pre-primary, primary, high school, college, university, and lifelong learning environments. They refresh the enigmatic ambience that often surrounds the teaching and learning that goes on in literary studies and offer transparent, useful and replicable research and practice. Students and teachers alike are encouraged to take them and own them.

Citizen Science Susanne Hecker 2018-10-15 Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

Modeling, Dynamics, Optimization and Bioeconomics II Alberto A. Pinto 2017-09-30 The concepts and techniques presented in this volume originated from the fields of dynamics, statistics, control theory, computer science and informatics, and are applied to novel and innovative real-world applications. Over the past few decades, the use of dynamic systems, control theory, computing, data mining, machine learning and simulation has gained the attention of numerous researchers from all over the world. Admirable scientific projects using both model-free and model-based methods coevolved at today's research centers and are introduced in conferences around the world, yielding new scientific advances and helping to solve important real-world problems. One important area of progress is the bioeconomy, where advances in the life sciences are used to produce new products in a sustainable and clean manner. In this book, scientists from all over the world share their latest insights and important findings in the field. The majority of the contributed papers for this volume were written by participants of the 3rd International Conference on Dynamics, Games and Science, DGSIII, held at the University of Porto in February 2014, and at the Berkeley Bioeconomy Conference at the University of California at Berkeley in March 2014. The aim of the project of this book "Modeling, Dynamics, Optimization and Bioeconomics II" follows the same aim as its companion piece, "Modeling, Dynamics, Optimization and Bioeconomics I," namely, the exploration of emerging and cutting-edge theories and methods for modeling, optimization, dynamics and bioeconomy.

Microbial Communities of Coastal Eutrophic Systems Savvas Genitsaris 2021-12-31

The SAGE Encyclopedia of Stem Cell Research Eric E. Bouhassira 2015-06-15 *The SAGE Encyclopedia of Stem Cell Research, Second Edition* is filled with new procedures and exciting medical

breakthroughs, including executive orders from the Obama administration reversing barriers to research imposed under the Bush administration, court rulings impacting NIH funding of research based on human embryonic stem cells, edicts by the Papacy and other religious leaders, and the first success in cloning human stem cells. Stem cell biology is clearly fueling excitement and potential in traditional areas of developmental biology and in the field of regenerative medicine, where they are believed to hold much promise in addressing any number of intractable medical conditions. This updated second edition encyclopedia will expand on information that was given in the first edition and present more than 270 new and updated articles that explore major topics in ways accessible to nonscientists, thus bringing readers up-to-date with where stem cell biology stands today, including new and evolving ethical, religious, legal, social, and political perspectives. This second edition reference work will serve as a universal resource for all public and academic libraries. It is an excellent foundation for anyone who is interested in the subject area of stem cell biology. Key Features: Reader's Guide, Further Readings, Cross References, Chronology, Resource Guide, Index A Glossary will elucidate stem cell terminology for the nonscientist. Statistics and selected reprints of major journal articles that pertain to milestones achieved in stem cell research Documents from Congressional Hearings on stem cells and cloning Reports to the President's Council on Bioethics, and more

Slime Ruth Kassinger 2019 Say "algae" and most people think of pond scum. What they don't know is that without algae, none of us would exist.

Understanding West Africa's Ebola Epidemic Ibrahim Abdullah 2017-10-15 From 2013 to 2015, over 11,000 people across West Africa lost their lives to the deadliest outbreak of the Ebola virus in history. Crucially, this epidemic marked the first time the virus was able to spread beyond rural areas to major cities, overturning conventional assumptions about its epidemiology. With backgrounds ranging from development to disease control, the contributors to this volume - some of them based in countries affected by the Ebola epidemic - consider the underlying factors that shaped this unprecedented outbreak. While championing the heroic efforts of local communities and aid workers in halting the spread of the disease, the contributors also reveal deep structural problems in both the countries and humanitarian agencies involved, which hampered the efforts to contain the epidemic. Alarming, they show that little has been learned from these events, with health provision remaining underfunded and poorly equipped to deal with future outbreaks. Such issues, they argue, reflect the wider challenges we face in tackling epidemic disease in an increasingly interconnected world.

Geoscience for the Public Good and Global Development Gregory R. Wessel 2016-05-18

Water Safety, Security and Sustainability Ashok Vaseashta 2021-07-14 This book focuses on threats, especially contaminants, to drinking water and the supply system, especially in municipalities but also in industrial and even residential settings. The safety, security, and suitability landscape can be described as dynamic and complex stemming from necessity and hence culpability due to the emerging threats and risks, vis-a-vis globalization resulting in new forms of contaminants being used due to new technologies. The book provides knowledge and guidance for engineers, scientists, designers, researchers, and students who are involved in water, sustainability, and study of security issues. This book starts out with basics of water usage, current statistics, and an overview of water resources. The book then introduces different scenarios of safety and security and areas that researchers need to focus. Following that, the book presents different types of contaminants – inadvertent, intentional, or incidental. The next section presents different methodologies of contamination sensing/detection and remediation strategies as per guidance and standards set globally. The book then concludes with selected chapters on water management, including critical infrastructure that is critical to maintaining safe water supplies to cities and municipalities. Each chapter includes descriptive information for professionals in their respective fields. The breadth of chapters offers insights into how science (physical, natural, and social) and technology can support new developments to manage the complexity resident within the evolving threat and risk landscape.

Animal Allergens: Common Protein Characteristics Featuring their Allergenicity Christiane Hilger 2015-07-13 Among the many molecules present in our environment, some have the property to induce allergic sensitization and IgE-mediated reactions. The analysis of known major animal allergens has shown that most belong to single protein families: lipocalins and serum albumins for inhalant allergens, EF-hand proteins, tropomyosins and caseins for the digestive allergens. The finding that allergens are often clustered in large families may be related to the fact that common structural, biochemical or functional features contribute to their allergenicity, in addition to external adjuvant factors. Currently, there is no curative treatment for animal allergy available. In order to lower allergic reactions to respiratory allergens in daily life and to food allergens upon accidental exposure, it is important to desensitize concerned patients. Tolerance induction by allergen-specific immunotherapy is in the current focus of an ambitious research. This Research Topic aims to provide a comprehensive view of the basic and recent insights on the allergenicity of animal allergens in view of their structural and functional aspects as well as allergen-specific immunotherapy.

Hayes' Principles and Methods of Toxicology A. Wallace Hayes 2014-10-10 Hayes' Principles and Methods of Toxicology has long been established as a reliable reference to the concepts, methodologies, and assessments integral to toxicology. The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field. With new authors and new chap

The Entrepreneurship Movement and the University C. Sá 2015-03-20 Entrepreneurship is widely embraced today in political discourse, popular culture, and economic policy prescriptions. Several groups actively promote entrepreneurial thinking and practices in higher education. This book examines how this 'Entrepreneurship Movement' impacts higher education in Canada and the United States.

Advances in Human Aspects of Transportation: Part I Neville Stanton 2021-07-19 Human Factors and Ergonomics have made a considerable contribution to the research, design, development, operation and analysis of transportation systems which includes road and rail vehicles and their complementary infrastructure, aviation and maritime transportation. This book presents recent advances in the Human Factors aspects of Transportation. These advances include accident analysis, automation of vehicles, comfort, distraction of drivers (understanding of distraction and how to avoid it), environmental concerns, in-vehicle systems design, intelligent transport systems, methodological developments, new systems and technology, observational and case studies, safety, situation awareness, skill development and training, warnings and workload. This book brings together the most recent human factors work in the transportation domain, including empirical research, human performance and other types of modeling, analysis, and development. The issues facing engineers, scientists, and other practitioners of human factors in transportation research are becoming more challenging and more critical. The common theme across these sections is that they deal with the intersection of the human and the system. Moreover, many of the chapter topics cross section boundaries, for instance by focusing on function allocation in NextGen or on the safety benefits of a tower controller tool. This is in keeping with the systemic nature of the problems facing human factors experts in rail and road, aviation and maritime research– it is becoming increasingly important to view problems not as isolated issues that can be extracted from the system

environment, but as embedded issues that can only be understood as a part of an overall system.

Mass Intellectuality and Democratic Leadership in Higher Education Joss Winn 2017-08-24 Higher education in the UK is in crisis. The idea of the public university is under assault, and both the future of the sector and its relationship to society are being gambled. Higher education is increasingly unaffordable, its historic institutions are becoming untenable, and their purpose is resolutely instrumental. What and who have led us to this crisis? What are the alternatives? To whom do we look for leadership in revealing those alternatives? This book critically analyses intellectual leadership in the university, exploring ongoing efforts from around the world to create alternative models for organizing higher education and the production of knowledge. Its authors offer their experience and views from inside and beyond the structures of mainstream higher education, in order to reflect on efforts to create alternatives. In the process the volume asks: is it possible to reimagine the university democratically and cooperatively? If so, what are the implications for leadership not just within the university but also in terms of higher education's relationship to society? The authors argue that mass higher education is at the point where it no longer reflects the needs, capacities and longterm interests of global society. An alternative role and purpose is required, based upon 'mass intellectuality' or the real possibility of democracy in learning and the production of knowledge.

Digital Health Deborah Lupton 2017-08-18 The rise of digital health technologies is, for some, a panacea to many of the medical and public health challenges we face today. This is the first book to articulate a critical response to the techno-utopian and entrepreneurial vision of the digital health phenomenon. Deborah Lupton, internationally renowned for her scholarship on the sociocultural and political aspects of medicine and health as well as digital technologies, addresses a range of compelling issues about the interests digital health represents, and its unintended effects on patients, doctors and how we conceive of public health and healthcare delivery. Bringing together social and cultural theory with empirical research, the book challenges apolitical approaches to examine the impact new technologies have on social justice, and the implication for social and economic inequalities. Lupton considers how self-tracking devices change the patient-doctor relationship, and how the digitisation and gamification of healthcare through apps and other software affects the way we perceive and respond to our bodies. She asks which commercial interests enable different groups to communicate more widely, and how the personal data generated from digital encounters are exploited. Considering the lived experience of digital health technologies, including their emotional and sensory dimensions, the book also assesses their broader impact on medical and public health knowledges, power relations and work practices. Relevant to students and researchers interested in medicine and public health across sociology, psychology, anthropology, new media and cultural studies, as well as policy makers and professionals in the field, this is a timely contribution on an important issue.