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Remaking Participation Sep 10 2020 Changing relations between science and democracy – and controversies over issues such as climate change, energy transitions, genetically modified organisms and smart technologies – have led to a rapid rise in new forms of public participation and citizen engagement. While most existing approaches adopt fixed meanings of ‘participation’ and are consumed by questions of method or critiquing the possible limits of democratic engagement, this book offers new insights that rethink public engagements with science, innovation and environmental issues as diverse, emergent and in the making. Bringing together leading scholars on science and democracy, working between science and technology studies, political theory, geography, sociology and anthropology, the volume develops relational and co-productionist approaches to studying and intervening in spaces of participation. New empirical insights into the making, construction, circulation and effects of participation across cultures are illustrated through examples ranging from climate change and energy to nanotechnology and mundane technologies, from institutionalised deliberative processes to citizen-led innovation and activism, and from the global north to global south. This new way of seeing participation in science and democracy opens up alternative paths for reconfiguring and remaking participation in more experimental, reflexive, anticipatory and responsible ways. This ground-breaking book is essential reading for scholars and students of participation across the critical social sciences and beyond, as well as those seeking to build more transformative participatory practices.

Peer Review and Manuscript Management in Scientific Journals Oct 04 2022 This comprehensive yet concise book provides a thorough and complete guide to every aspect of managing the peer review process for scientific journals. Until now, little information has been readily available on how this important facet of the journal publishing process should be conducted properly. *Peer Review and Manuscript Management in Scientific Journals* fills this gap and provides clear guidance on all aspects of peer review, from manuscript submission to final decision. *Peer Review and Manuscript Management in Scientific Journals* is an essential reference for science journal editors, editorial office staff and publishers. It is an invaluable handbook for the set-up of new Editorial Offices, as well as a useful reference for well-established journals which may need guidance on a particular situation, or may want to review their current practices. Although intended primarily for journals in science, much of its content will be relevant to other scholarly areas. This wonderful work by Dr. Hames can be used as a textbook in courses for both experienced and novice editors, and I trust that it is what Dr. Hames

intended when she prepared this beautiful book. Every scientific editor should read it.? Journal of Educational Evaluation for Health Professionals, 2008 This book is co-published with the Association of Learned and Professional Society Publishers (ALPSP) (www.alpsp.org) ALPSP members are entitled to a 30% discount on this book.

Citizen Science Nov 05 2022 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.

How to Write a Good Scientific Paper Jan 27 2022 Many scientists and engineers consider themselves poor writers or find the writing process difficult. The good news is that you do not have to be a talented writer to produce a good scientific paper, but you do have to be a careful writer. In particular, writing for a peer-reviewed scientific or engineering journal requires learning and executing a specific formula for presenting scientific work. This book is all about teaching the style and conventions of writing for a peer-reviewed scientific journal. From structure to style, titles to tables, abstracts to author lists, this book gives practical advice about the process of writing a paper and getting it published.

Electronic Materials Jul 09 2020 Mechanical and thermal properties are reviewed and electrical and magnetic properties are emphasized. Basics of symmetry and internal structure of crystals and the main properties of metals, dielectrics, semiconductors, and magnetic materials are discussed. The theory and modern experimental data are presented, as well as the specifications of materials that are necessary for practical application in electronics. The modern state of research in nanophysics of metals, magnetic materials, dielectrics and semiconductors is taken into account, with particular attention to the influence of structure on the physical properties of nano-materials. The book uses simplified mathematical treatment of theories, while emphasis is placed on the basic concepts of physical phenomena in electronic materials. Most chapters are devoted to the advanced scientific and technological problems of electronic materials; in addition, some new insights into theoretical facts relevant to technical devices are presented. Electronic Materials is an essential reference for newcomers to the field of electronics, providing a fundamental understanding of important basic and advanced concepts in electronic materials science. Provides important overview of the fundamentals of electronic materials properties significant for device applications along with advanced and applied concepts essential to those working in the field of electronics Takes a simplified and mathematical approach to theories essential to the understanding of electronic materials and summarizes important takeaways at the end of each chapter Interweaves modern experimental data and research in topics such as nanophysics, nanomaterials and dielectrics

Sharing Publication-Related Data and Materials Aug 02 2022 Biologists communicate to the research community and document their scientific accomplishments by publishing in scholarly journals. This report explores the responsibilities of authors to share data, software, and materials

related to their publications. In addition to describing the principles that support community standards for sharing different kinds of data and materials, the report makes recommendations for ways to facilitate sharing in the future.

The Science of Science Oct 24 2021 This is the first comprehensive overview of the exciting field of the 'science of science'. With anecdotes and detailed, easy-to-follow explanations of the research, this book is accessible to all scientists, policy makers, and administrators with an interest in the wider scientific enterprise.

Tattooed Bodies Jun 19 2021 "Tattooed Bodies--apart from often being an exemplary model of Continental philosophy--is a groundbreaking contribution to tattoo studies that shows us how tattooing, when taken seriously, can open up the meanings of works of art, literature, film, and theory itself in unexpected ways. For those who have already been thinking about the meaning of "the tattoo," this collection of essays will greatly expand possibilities of inquiry. For those who are new to the field, several essays act simply as excellent primers on how to undertake deconstructive, anthropological, aesthetic analysis in general offering up scholarly, nuanced investigations of texts without indulging in exclusionary jargon." -Danielle Meijer, DePaul University "What is a tattoo? Associated in the past with criminals and degenerates, tattoos have become high fashion in the 21st century. In this collection, leading scholars speculate about the nature and implications of these bodily inscriptions. Are they social or antisocial? Conformist or rebellious? Decorative or disfiguring? Atavistic or futuristic? How do they relate to other scars, such as the navel as the mark of our maternal origin? By opening up these questions and many more, the essays in this volume show how the tattoo challenges the distinction between word and flesh, self and society, life and death." -Maud Ellmann, University of Chicago The essays collected in *Tattooed Bodies* draw on a range of theoretical paradigms and empirical knowledge to investigate tattoos, tattooing, and our complex relations with marks on skin. Engaging with perspectives in art history, continental philosophy, media studies, psychoanalysis, critical theory, literary studies, biopolitics, and cultural anthropology, the volume reflects the diversity of meanings attributed to tattoos across cultures. Essays explore tattoos and tattooing in Derrida, Deleuze and Guattari, Lacan, Agamben, and Jean-Luc Nancy, while interpreting tattoos in literary works by Melville, Beckett, Kafka, Genet, and Jeff VanderMeer, among others. James Martell is Associate Professor of French at Lyon College, USA. Erik Larsen is Assistant Professor of Medical Humanities at the University of Rochester, USA.

I Love Science May 07 2020 Colourful and charmingly illustrated, the *Women in Science Journal* encourages young women and girls to ponder the world and the daily ins and outs of their lives. Opening with a short reference section that contains basic equations, the periodic table, basic HTML codes, and a measurement converter, the journal then invites the user to write and dream through writing prompts like, "What is a challenge you've overcome recently?" and inspirational quotes from notable women who've achieved greatness in the science, technology, mathematics, and engineering (STEM) fields, such as famous primatologist Jane Goodall's, "Only when our clever brain and our human heart work together can we reach our full potential."

The Fundamental Role of Science and Technology in International Development Feb 25 2022 In October 2003 the U.S. Agency for International Development (USAID) and the National Research Council (NRC) entered into a cooperative agreement. The agreement called for the NRC to examine selected aspects of U.S. foreign assistance activities--primarily the programs of the USAID--that have benefited or could benefit from access to strong science, technology, and medical capabilities in the United States or elsewhere. After considering the many aspects of the role of science and technology (S&T) in foreign assistance, the study led to the publication of *The Fundamental Role of Science and Technology in International Development*. In the book special attention is devoted to partnerships that involve the USAID together with international,

regional, U.S. governmental, and private sector organizations in fields such as health care, agriculture and nutrition, education and job creation, and energy and the environment. This book explores specific programmatic, organizational, and personnel reforms that would increase the effective use of S&T to meet the USAID's goals while supporting larger U.S. foreign policy objectives.

Pharmaceutical Medicine Dec 26 2021 Pharmaceutical Medicine provides an accessible, user-friendly and up-to-date guide for those involved in clinical trials or marketing of new medicines in the pharmaceutical industry.

A Minimal Metaphysics for Scientific Practice Apr 05 2020 Provides a minimal metaphysics for scientific practice, yielding new accounts of lawhood, causation and reduction.

Journal of Scientific & Industrial Research Mar 05 2020

Strategic Science Communication May 31 2022 This guidebook is essential reading for all professionals in the field.

American Eclipse: A Nation's Epic Race to Catch the Shadow of the Moon and Win the Glory of the World Jan 03 2020 This “suspenseful narrative history” (Maureen Corrigan, NPR) brings to life the momentous eclipse that enthralled a nation and thrust American science onto the world stage. On a scorching July afternoon in 1878, at the dawn of the Gilded Age, the moon’s shadow descended on the American West, darkening skies from Montana Territory to Texas. This rare celestial event—a total solar eclipse—offered a priceless opportunity to solve some of the solar system’s most enduring riddles, and it prompted a clutch of enterprising scientists to brave the wild frontier in a grueling race to the Rocky Mountains. Acclaimed science journalist David Baron, long fascinated by eclipses, re-creates this epic tale of ambition, failure, and glory in a narrative that reveals as much about the historical trajectory of a striving young nation as it does about those scant three minutes when the blue sky blackened and stars appeared in mid-afternoon. Lauded as a “sweeping, compelling” (Wall Street Journal) work of science history, *American Eclipse* tells the story of the three tenacious and brilliant scientists who raced to Wyoming and Colorado to observe the rare event. Dedicating years of “exhaustive research to reconstruct a remarkable chapter of U.S. history” (Scientific American), award-winning writer David Baron brings to three-dimensional life these competitors—the planet-hunter James Craig Watson, pioneering astronomer Maria Mitchell, and the ambitious young inventor Thomas Edison—to thrillingly re-create the fierce jockeying of nineteenth-century American astronomy. With spellbinding accounts of train robberies and Indian skirmishes, the mythologized age of the Wild West comes alive as never before. An “enthraling” (Daniel Kevles) and magnificent portrayal of America’s dawn as a scientific superpower, *American Eclipse* depicts a young nation that looked to the skies to reveal its towering ambition and expose its latent genius.

Pakistan Journal of Science Sep 22 2021

Operations Research Aug 29 2019 This book ‘Operations Research: Theory and Practice’ provides various concepts, theoretical and practical knowledge and develops the techno-managerial skills in the field of engineering. All the angles and approaches of operations applicable to both industrial and institutional needs are presented. It also provides an insight into the historical development of Operations Research. Examples and problems from usual situations that occur in industries are presented wherever necessary. Please note: Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

Innovation Studies Dec 02 2019 Innovation is increasingly recognized as a vitally important social and economic phenomenon worthy of serious research study. The book, written by leading contributors to the field, examines the state of the art and achievements in the relatively new field of Innovation Studies, as well as what future challenges lie ahead.

Quantum Gravity Sep 30 2019 Quantum gravity is perhaps the most important open problem in

fundamental physics. It is the problem of merging quantum mechanics and general relativity, the two great conceptual revolutions in the physics of the twentieth century. The loop and spinfoam approach, presented in this 2004 book, is one of the leading research programs in the field. The first part of the book discusses the reformulation of the basis of classical and quantum Hamiltonian physics required by general relativity. The second part covers the basic technical research directions. Appendices include a detailed history of the subject of quantum gravity, hard-to-find mathematical material, and a discussion of some philosophical issues raised by the subject. This fascinating text is ideal for graduate students entering the field, as well as researchers already working in quantum gravity. It will also appeal to philosophers and other scholars interested in the nature of space and time.

I Am a Book. I Am a Portal to the Universe Nov 24 2021 Hello. I am a book. But I'm also a portal to the universe. I have 112 pages, measuring twenty centimetres high and twenty centimetres wide. I weigh 450 grams. And I have the power to show you the wonders of the world.

Argumentation in Science Education Jul 01 2022 Educational researchers are bound to see this as a timely work. It brings together the work of leading experts in argumentation in science education. It presents research combining theoretical and empirical perspectives relevant for secondary science classrooms. Since the 1990s, argumentation studies have increased at a rapid pace, from stray papers to a wealth of research exploring ever more sophisticated issues. It is this fact that makes this volume so crucial.

Alan Turing: His Work and Impact Mar 29 2022 In this 2013 winner of the prestigious R.R. Hawkins Award from the Association of American Publishers, as well as the 2013 PROSE Awards for Mathematics and Best in Physical Sciences & Mathematics, also from the AAP, readers will find many of the most significant contributions from the four-volume set of the Collected Works of A. M. Turing. These contributions, together with commentaries from current experts in a wide spectrum of fields and backgrounds, provide insight on the significance and contemporary impact of Alan Turing's work. Offering a more modern perspective than anything currently available, *Alan Turing: His Work and Impact* gives wide coverage of the many ways in which Turing's scientific endeavors have impacted current research and understanding of the world. His pivotal writings on subjects including computing, artificial intelligence, cryptography, morphogenesis, and more display continued relevance and insight into today's scientific and technological landscape. This collection provides a great service to researchers, but is also an approachable entry point for readers with limited training in the science, but an urge to learn more about the details of Turing's work. 2013 winner of the prestigious R.R. Hawkins Award from the Association of American Publishers, as well as the 2013 PROSE Awards for Mathematics and Best in Physical Sciences & Mathematics, also from the AAP Named a 2013 Notable Computer Book in Computing Milieux by Computing Reviews Affordable, key collection of the most significant papers by A.M. Turing Commentary explaining the significance of each seminal paper by preeminent leaders in the field Additional resources available online

Bone Rooms Jul 29 2019 A Smithsonian Book of the Year A Nature Book of the Year "Provides much-needed foundation of the relationship between museums and Native Americans."

—Smithsonian "How did our museums become great storehouses of human remains? What have we learned from the skulls and bones of unburied dead? *Bone Rooms* chases answers to these questions through shifting ideas about race, anatomy, anthropology, and archaeology and helps explain recent ethical standards for the collection and display of human dead." —Ann Fabian, author of *The Skull Collectors* "Details the nascent views of racial science that evolved in U.S. natural history, anthropological, and medical museums...Redman effectively portrays the

remarkable personalities behind [these debates]...pitting the prickly Aleš Hrdlička at the Smithsonian...against ally-turned-rival Franz Boas at the American Museum of Natural History.” —David Hurst Thomas, *Nature* “In exquisite detail...Bone Rooms narrates the rise and fall of racial science in America...This complicated and engrossing story is filled with unexpected twists and significant implications for the history of anthropology...and intellectual history of race in the United States, and American intellectual history more generally.” —Matthew Dennis, author of *Seneca Possessed* “A beautifully written, meticulously documented analysis of [this] little-known history.” —Brian Fagan, *Current World Archeology* In 1864 a U.S. army doctor dug up the remains of a Dakota man who had been killed in Minnesota and sent the skeleton to a museum in Washington that was collecting human remains for research. In the “bone rooms” of the Smithsonian, a scientific revolution was unfolding that would change our understanding of the human body, race, and prehistory. Seeking evidence to support new theories of racial classification, collectors embarked on a global competition to recover the best specimens of skeletons, mummies, and fossils. As the study of these discoveries increasingly discredited racial theory, new ideas emerging in the budding field of anthropology displaced race as the main motive for building bone rooms. Today, debates about the ethics of these collections have taken on a new urgency as a new generation seeks to learn about the indigenous past and to return objects of spiritual significance to native peoples.

The Texas Journal of Science Jul 21 2021 Includes the proceedings and transactions of the Academy.

Advances in Environmental Sciences Oct 31 2019 Contributed research papers.

Astrophysical Recipes Jan 15 2021 “Computational astrophysics is a new and quickly growing discipline. In this book the authors outline the fundamentals for computational astrophysics, focusing on the use of the Astronomical Multipurpose Software Environment (AMUSE), which is a general-purpose simulation environment in astrophysics written in Python. AMUSE allows you to combine existing solvers to build new applications that can be combined again to study gradually more complex situations. This enables the growth of multi-physics and multi-scale application software in a hierarchical fashion, testing each intermediate step as the complexity of the software continues to increase. All examples in the book are associated with codes that run on a simple laptop or workstation. All figures are reproducible with a simple script, and all scripts are available online to be downloaded and run accordingly.”--Source : résumé de l'éditeur.

Making "Nature" Apr 29 2022 Nature's shifting audience : 1869-1875 -- Nature's contributors and the changing of Britain's scientific guard : 1872-1895 -- Defining the "man of science" in Nature -- Scientific internationalism and scientific nationalism -- Nature, interwar politics, and intellectual freedom -- "It almost came out on its own" : Nature under L.J.F. Brimble and A.J.V. Gale -- Nature, the Cold War, and the rise of the United States -- "Disorderly publication" : Nature and scientific self-policing in the 1980s.

Literature and Science Nov 12 2020

The Scientific Journal Sep 03 2022 Not since the printing press has a media object been as celebrated for its role in the advancement of knowledge as the scientific journal. From open communication to peer review, the scientific journal has long been central both to the identity of academic scientists and to the public legitimacy of scientific knowledge. But that was not always the case. At the dawn of the nineteenth century, academies and societies dominated elite study of the natural world. Journals were a relatively marginal feature of this world, and sometimes even an object of outright suspicion. The *Scientific Journal* tells the story of how that changed. Alex Csiszar takes readers deep into nineteenth-century London and Paris, where savants struggled to reshape scientific life in the light of rapidly changing political mores and the growing importance of the press in public life. The scientific journal did not arise as a natural solution to the problem

of communicating scientific discoveries. Rather, as Csiszar shows, its dominance was a hard-won compromise born of political exigencies, shifting epistemic values, intellectual property debates, and the demands of commerce. Many of the tensions and problems that plague scholarly publishing today are rooted in these tangled beginnings. As we seek to make sense of our own moment of intense experimentation in publishing platforms, peer review, and information curation, Csiszar argues powerfully that a better understanding of the journal's past will be crucial to imagining future forms for the expression and organization of knowledge.

Chiral Nanomaterials Oct 12 2020 Thorough and up-to-date, this book presents recent developments in this exciting research field. To begin with, the text covers the fabrication of chiral nanomaterials via various synthesis methods, including electron beam lithography, ion beam etching, chemical synthesis and biological DNA directed assembly. This is followed by the relevant theory and reaction mechanisms, with a discussion of the characterization of chiral nanomaterials according to the optical properties of metal nanoparticles, semiconductor nanocrystals, and nanoclusters. The whole is rounded off by a summary of applications in the field of catalysis, sensors, and biomedicine. With its comprehensive yet concise coverage of the whole spectrum of research, this is invaluable reading for senior researchers and entrants to the field of nanoscience and materials science.

The Code Breaker Aug 10 2020 The best-selling author of Leonardo da Vinci and Steve Jobs returns. In 2012, Nobel Prize winning scientist Jennifer Doudna hit upon an invention that will transform the future of the human race: an easy-to-use tool that can edit DNA. Known as CRISPR, it opened a brave new world of medical miracles and moral questions. It has already been deployed to cure deadly diseases, fight the coronavirus pandemic of 2020, and make inheritable changes in the genes of babies. But what does that mean for humanity? Should we be hacking our own DNA to make us less susceptible to disease? Should we democratise the technology that would allow parents to enhance their kids? After discovering this CRISPR, Doudna is now wrestling these even bigger issues. **THE CODE BREAKERS** is an examination of how life as we know it is about to change – and a brilliant portrayal of the woman leading the way.

Principles and Practice of Movement Disorders E-Book Aug 22 2021 Principles and Practice of Movement Disorders provides the complete, expert guidance you need to diagnose and manage these challenging conditions. Drs. Stanley Fahn, Joseph Jankovic and Mark Hallett explore all facets of these disorders, including the latest rating scales for clinical research, neurochemistry, clinical pharmacology, genetics, clinical trials, and experimental therapeutics. This edition features many new full-color images, additional coverage of pediatric disorders, updated Parkinson information, and many other valuable updates. An accompanying Expert Consult website makes the content fully searchable and contains several hundred video clips that illustrate the manifestations of all the movement disorders in the book along with their differential diagnoses. Get just the information you need for a clinical approach to diagnosis and management, with minimal emphasis on basic science. Find the answers you need quickly and easily thanks to a reader-friendly full-color format, with plentiful diagrams, photographs, and tables. Apply the latest advances to diagnosis and treatment of pediatric movement disorders, Parkinson disease, and much more. View the characteristic presentation of each disorder with a complete collection of professional-quality, narrated videos online. Better visualize every concept with new full-color illustrations throughout. Search the complete text online, follow links to PubMed abstracts, and download all of the illustrations, at www.expertconsult.com.

Scientific Explanation Feb 02 2020 Scientific Explanation was first published in 1962. Minnesota Archive Editions uses digital technology to make long-unavailable books once again accessible, and are published unaltered from the original University of Minnesota Press editions.

Is a new consensus emerging in the philosophy of science? The nine distinguished contributors to this volume apply that question to the realm of scientific explanation and, although their conclusions vary, they agree in one respect: there definitely was an old consensus. Co-editor Wesley Salmon's opening essay, "Four Decades of Scientific Explanation," grounds the entire discussion. His point of departure is the founding document of the old consensus: a 1948 paper by Carl G. Hempel and Paul Oppenheim, "Studies in the Logic of Explanation," that set forth, with remarkable clarity, a mode of argument that came to be known as the deductive-nomological model. This approach, holding that explanation does not move beyond the sphere of empirical knowledge, remained dominant during the hegemony of logical empiricism from 1950 to 1975. Salmon traces in detail the rise and breakup of the old consensus, and examines the degree to which there is, if not a new consensus, at least a kind of reconciliation on this issue among contemporary philosophers of science and clear agreement that science can indeed tell us why. The other contributors, in the order of their presentations, are: Peter Railton, Matti Sintonen, Paul W. Humphreys, David Papineau, Nancy Cartwright, James Woodward, Merrilee H. Salmon, and Philip Kitcher.

African Journal of Science, Technology, Innovation and Development Apr 17 2021

Handbook of Damage Mechanics Jun 27 2019 This authoritative reference provides comprehensive coverage of the topics of damage and healing mechanics. Computational modeling of constitutive equations is provided as well as solved examples in engineering applications. A wide range of materials that engineers may encounter are covered, including metals, composites, ceramics, polymers, biomaterials, and nanomaterials. The internationally recognized team of contributors employ a consistent and systematic approach, offering readers a user-friendly reference that is ideal for frequent consultation. **Handbook of Damage Mechanics: Nano to Macro Scale for Materials and Structures** is ideal for graduate students and faculty, researchers, and professionals in the fields of Mechanical Engineering, Civil Engineering, Aerospace Engineering, Materials Science, and Engineering Mechanics.

Journal of Science and Technology, Kumasi, Ghana May 19 2021

Discriminatory Pricing of Over-the-Counter Derivatives Feb 13 2021 New regulatory data reveal extensive price discrimination against non-financial clients in the FX derivatives market. The client at the 90th percentile pays an effective spread of 0.5%, while the bottom quarter incur transaction costs of less than 0.02%. Consistent with models of search frictions in over-the-counter markets, dealers charge higher spreads to less sophisticated clients. However, price discrimination is eliminated when clients trade through multi-dealer request-for-quote platforms. We also document that dealers extract rents from captive clients and market opacity, but only for contracts negotiated bilaterally with unsophisticated clients.

Cultural Science Mar 17 2021 This book is available as open access through the Bloomsbury Open Access programme and is available on www.bloomsburycollections.com. Cultural Science introduces a new way of thinking about culture. Adopting an evolutionary and systems approach, the authors argue that culture is the population-wide source of newness and innovation; it faces the future, not the past. Its chief characteristic is the formation of groups or 'demes' (organised and productive subpopulation; 'demos'). Demes are the means for creating, distributing and growing knowledge. However, such groups are competitive and knowledge-systems are adversarial. Starting from a rereading of Darwinian evolutionary theory, the book utilises multidisciplinary resources: Raymond Williams's 'culture is ordinary' approach; evolutionary science (e.g. Mark Pagel and Herbert Gintis); semiotics (Yuri Lotman); and economic theory (from Schumpeter to McCloskey). Successive chapters argue that: -Culture and knowledge need to be understood from an externalist ('linked brains') perspective, rather than through the lens of individual behaviour; -Demes are created by culture, especially storytelling, which in turn

constitutes both politics and economics; -The clash of systems - including demes - is productive of newness, meaningfulness and successful reproduction of culture; -Contemporary urban culture and citizenship can best be explained by investigating how culture is used, and how newness and innovation emerge from unstable and contested boundaries between different meaning systems; - The evolution of culture is a process of technologically enabled 'demic concentration' of knowledge, across overlapping meaning-systems or semiospheres; a process where the number of demes accessible to any individual has increased at an accelerating rate, resulting in new problems of scale and coordination for cultural science to address. The book argues for interdisciplinary 'consilience', linking evolutionary and complexity theory in the natural sciences, economics and anthropology in the social sciences, and cultural, communication and media studies in the humanities and creative arts. It describes what is needed for a new 'modern synthesis' for the cultural sciences. It combines analytical and historical methods, to provide a framework for a general reconceptualisation of the theory of culture – one that is focused not on its political or customary aspects but rather its evolutionary significance as a generator of newness and innovation.

The Social Life of DNA Dec 14 2020 The unexpected story of how genetic testing is affecting race in America We know DNA is a master key that unlocks medical and forensic secrets, but its genealogical life is both revelatory and endlessly fascinating. Tracing genealogy is now the second-most popular hobby amongst Americans, as well as the second-most visited online category. This billion-dollar industry has spawned popular television shows, websites, and Internet communities, and a booming heritage tourism circuit. The tsunami of interest in genetic ancestry tracing from the African American community has been especially overwhelming. In *The Social Life of DNA*, Alondra Nelson takes us on an unprecedented journey into how the double helix has wound its way into the heart of the most urgent contemporary social issues around race. For over a decade, Nelson has deeply studied this phenomenon. Artfully weaving together keenly observed interactions with root-seekers alongside illuminating historical details and revealing personal narrative, she shows that genetic genealogy is a new tool for addressing old and enduring issues. In *The Social Life of DNA*, she explains how these cutting-edge DNA-based techniques are being used in myriad ways, including grappling with the unfinished business of slavery: to foster reconciliation, to establish ties with African ancestral homelands, to rethink and sometimes alter citizenship, and to make legal claims for slavery reparations specifically based on ancestry. Nelson incisively shows that DNA is a portal to the past that yields insight for the present and future, shining a light on social traumas and historical injustices that still resonate today. Science can be a crucial ally to activism to spur social change and transform twenty-first-century racial politics. But Nelson warns her readers to be discerning: for the social repair we seek can't be found in even the most sophisticated science. Engrossing and highly original, *The Social Life of DNA* is a must-read for anyone interested in race, science, history and how our reckoning with the past may help us to chart a more just course for tomorrow.

Sebastião Salgado. Amazônia Jun 07 2020 For six years Sebastião Salgado traveled the Brazilian Amazon and photographed the unparalleled beauty of this extraordinary region: the rainforest, the rivers, the mountains, the people who live there--this irreplaceable treasure of humanity in which the immense power of nature is felt like nowhere else on earth.