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conception, production, and design of landmark works in their fields. Featuring peer-reviewed contributions from noted experts in their fields of research, *Reproducibility: Principles, Problems, Practices, and Prospects* presents state-of-the-art approaches to reproducibility, the gold standard of sound science, from multi- and interdisciplinary perspectives. Including comprehensive coverage for implementing and reflecting the norm of reproducibility in various pertinent fields of research, the book focuses on how the reproducibility of results is applied, how it may be limited, and how such limitations can be understood or even controlled in the natural sciences, computational sciences, life sciences, social sciences, and studies of science and technology.

The book presents many chapters devoted to a variety of methods and techniques, as well as their epistemic and ontological underpinnings, which have been developed to safeguard reproducible research and curtail deficits and failures. The book also investigates the political, historical, and social practices that underlie reproducible research in contemporary science studies, including the difficulties of good scientific practice and the ethos of reproducibility in modern innovation societies. *Reproducibility: Principles, Problems, Practices, and Prospects* is a guide for researchers who are interested in the general and overarching questions behind the concept of reproducibility; for active scientists who are confronted with practical

reproducibility problems in their everyday work; and for economic stakeholders and political decision makers who need to better understand the challenges of reproducibility. In addition, the book is a useful in-depth primer for undergraduate and graduate-level courses in scientific methodology and basic issues in the philosophy and sociology of science from a modern perspective. “A comprehensive, insightful treatment of the reproducibility challenges facing science today and of ways in which the scientific community can address them.” Kathleen Hall Jamieson, Elizabeth Ware Packard Professor of Communication, University of Pennsylvania “How can we make sure that reproducible research remains a key imperative of

scientific communication under increasing commercialization, media attention, and publication pressure? This handbook offers the first interdisciplinary and fundamental treatment of this important question.” Torsten Hothorn, Professor of Biostatistics, University of Zurich Harald Atmanspacher, PhD, is Associate Fellow and staff member at Collegium Helveticum, ETH and University Zurich and is also President of the Society for Mind-Matter Research. He has pioneered advances in complex dynamical systems research and in a number of topics concerned with the relation between the mental and physical. Sabine Maasen, PhD, is Professor for Sociology of Science and Director of the Munich Center for Technology in Society (TU Munich) and

Associate Fellow at Collegium Helveticum (ETH and University Zurich). Her research focuses on the interface of science, technology, and society, notably with respect to neuroscience and its applications.

Transcultural Nursing - E-Book

Garland Science

The censorship and surveillance of individuals, societies, and countries have been a long-debated ethical and moral issue. In consequence, it is vital to explore this controversial topic from all angles. Censorship, Surveillance, and Privacy: Concepts, Methodologies,

Tools, and Applications is a vital reference source on the social, moral, religious, and political aspects of censorship and surveillance. It also explores the techniques of technologically supported censorship and surveillance. Highlighting a range of topics such as political censorship, propaganda, and information privacy, this multi-volume book is geared towards government officials, leaders, professionals, policymakers, media

specialists, academicians, and researchers interested in the various facets of censorship and surveillance.

Environmental Impact

Pomegranate

In the modern era each new innovation poses its own special ethical dilemma. How can human society adapt to these new forms of expression, commerce, government, citizenship, and learning while holding onto its ethical and moral principles? The Changing Scope of Technoethics in Contemporary Society is a critical scholarly resource that examines the existing intellectual platform within the field of technoethics. Featuring coverage on a broad range of topics such as ethical perspectives on internet safety, technoscience, and ethical

hacking communication, this book is geared towards academicians, researchers, and students seeking current research on domains of technoethics.

Vibrant Architecture Edinburgh University Press

"As Lee so wisely and eloquently cautions, there may be perils along this pathway as well as miraculous discoveries. Do dangers lurk in this new technological approach to nature? May we unwittingly be doing irreparable harm to individuals, not to mention the biosphere? This perceptive author even-handedly assesses the controversies surrounding the perils that may await us as molecular science moves out of the laboratory and into our homes and environment. This fascinating and comprehensive volume shows that the time has come to confront our gene future, because our gene future is now."--Jacket

The Deadly Politics of Industrial Pollution World Health Organization

Engineers, scientists, and technologists will find here, for the first time, a clear and comprehensive account of applications of ultrasonics in the field of process control. Using numerous examples of high-volume, low-cost applications, the author illustrates how the use of new transducer materials and designs, combined with microprocessor-based electronics, make technical and financial sense for concepts that only a few years ago might have been of interest only to academicians. Some of the important topics covered include coupling, acoustic isolation, transducer and sensor design, and signal detection in the presence of noise.

Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications IGI Global

This book sets out the conditions under which the need for a new approach to the production of architecture in the twenty-first century is established, where our homes and cities are facing increasing

pressures from environmental challenges that are compromising our lives and well being. Vibrant architecture embodies a new kind of architectural design practice that explores how lively materials, or 'vibrant matter', may be incorporated into our buildings to confer on them some of the properties of living things, such as movement, growth, sensitivity and self-repair. The theoretical and practical implications of how this may occur are explored through the application of a new group of materials.

Characteristically, these substances possess some of the properties of living systems but may not have the full status of being truly alive. They include forms of chemical artificial life such as 'dynamic droplets' or synthetically produced soils. As complex systems, they are able to communicate directly with the natural world using a shared language of chemistry and so, negotiate their continued

survival in a restless world.

Vibrant architecture may create new opportunities for architectural design practice that venture beyond top-down form-finding programs, by enabling architects to co-design in partnership with human and nonhuman collectives, which result from the production of post natural landscapes.

Ultimately, vibrant architecture may operate as an ecological platform for human development that augments the liveliness of our planet, rather than diminishes it.

Principles, Problems, Practices, and Prospects MIT Press

Data sharing can accelerate new discoveries by avoiding duplicative trials, stimulating new ideas for research, and enabling the maximal scientific knowledge and benefits to be gained from the efforts of clinical trial participants and investigators.

At the same time, sharing clinical trial data presents risks, burdens, and challenges. These include the need to protect the privacy and honor the consent of clinical trial participants; safeguard the legitimate economic interests of sponsors; and guard against invalid secondary analyses, which could undermine trust in clinical trials or otherwise harm public health. Sharing Clinical Trial Data presents activities and strategies for the responsible sharing of clinical trial data. With the goal of increasing scientific knowledge to lead to better therapies for patients, this book identifies guiding principles and makes recommendations to maximize the benefits and minimize risks. This report offers guidance on the types of clinical trial data available at different points in the process,

the points in the process at which each type of data should be shared, methods for sharing data, what groups should have access to data, and future knowledge and infrastructure needs. Responsible sharing of clinical trial data will allow other investigators to replicate published findings and carry out additional analyses, strengthen the evidence base for regulatory and clinical decisions, and increase the scientific knowledge gained from investments by the funders of clinical trials. The recommendations of *Sharing Clinical Trial Data* will be useful both now and well into the future as improved sharing of data leads to a stronger evidence base for treatment. This book will be of interest to stakeholders across the spectrum of research--from funders, to

researchers, to journals, to physicians, and ultimately, to patients.

Yearbook of International Organizations 2013-2014
Frontiers E-books

This book constitutes the thoroughly refereed post-workshop proceedings of the Second International Workshop on Hybrid Systems Biology, HSB 2013, held as part of the ECAL 2013 event, in Taormina, Italy, in September 2013; and the Third International Workshop on Hybrid Systems Biology, HSB 2014, held as part of CAV 2014, in Vienna, Austria, in July 2014. This volume presents 8 full papers together with 2 invited tutorials/surveys from 21 submissions. The HSB 2013 workshop aims at collecting scientists working in the area of hybrid modeling applied to systems biology, in order to discuss about current achieved goals, current challenges and future possible developments.

The scope of the HSB 2014 workshop is the general area of dynamical models in biology with an emphasis on hybrid approaches, which are not restricted to a narrow class of mathematical models, and which take advantage of techniques developed separately in different sub-fields. “ br>

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Detection and the Prevention of Leaks from Dams Penguin Domestic livestock in Africa are of importance not only as a source of milk and meat but also as a source of animal traction enabling farmers to cultivate larger areas, with crops providing the staple foods. Trypanosomosis, a parasitic disease transmitted cyclically by the tsetse fly (*Glossina* spp.), is arguably still the main constraint to livestock production on the continent, preventing full use of the land to feed the rapidly increasing human population. Sleeping sickness, the disease caused in

humans by species of *Trypanosoma*, is an important and neglected disease posing a threat to millions of people in tsetse-infested areas. Often wrongly thought of as a disease of the past, the prevalence of human sleeping sickness is increasing in many areas. Although alternative methods to control the disease are being investigated, such as immunological approaches, use of chemotherapy or exploitation of the trypanotolerance trait, it is only control or eradication of the tsetse fly vector which will remove the threat of the disease rather than providing a better means of "living" with it. As a result of the economic impact of tsetse-transmitted Trypanosomosis, a large amount of research literature has been produced. This book provides a comprehensive review of this literature. The text is divided into four parts: tsetse biology and ecology, epidemiology, vector control

and control of trypanosomosis. The book is invaluable for medical and veterinary entomologists, parasitologists and epidemiologists.

Papers Presented at the Second International Congress on Cell Biology Berlin (West), August 31 – September 5, 1980

Penguin

Oil Spills is the first book to survey the history of oil spills, the problems they create, the types of clean-ups and their efficacy, the legal, social, economic, and ecological consequences of oil spills, their long-term impacts on the wildlife and people who survive them, and the alternatives to oil and its transport. Biologist Joanna Burger writes clearly and accessibly both about the catastrophic oil spills that capture the headlines and the small chronic pipeline leaks that we rarely hear about. Oil Spills is essential reading for everyone concerned with environmental issues and energy policy.

Hybrid Systems Biology
Elsevier Health Sciences

"You read with a rising sense of despair and outrage, and you finish it as if awakening from a nightmare only Kafka could have conceived." --Christopher Lehmann-Haupt, New York Times
David Baltimore won the Nobel Prize in medicine in 1975. Known as a wunderkind in the field of immunology, he rose quickly through the ranks of the scientific community to become the president of the distinguished Rockefeller University. Less than a year and a half later, Baltimore resigned from his presidency, citing the personal toll of fighting a long battle over an allegedly fraudulent paper he had collaborated on in 1986 while at MIT. From the beginning, the Baltimore case provided a moveable feast for

those eager to hold science more accountable to the public that subsidizes its research. Did Baltimore stonewall a legitimate government inquiry? Or was he the victim of witch hunters? The Baltimore Case tells the complete story of this complex affair, reminding us how important the issues of government oversight and scientific integrity have become in a culture in which increasingly complicated technology widens the divide between scientists and society.

Oil Spills Springer
Volume 1 (A and B) of the Yearbook of International Organizations covers international organizations throughout the world, comprising their aims, activities and events

Ultrasonic Measurements for Process Control National Academies Press
#1 NEW YORK TIMES

BESTSELLER • “ The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly. ” —Entertainment Weekly NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE

- ONE OF THE “ MOST INFLUENTIAL ” (CNN), “ DEFINING ” (LITHUB), AND “ BEST ” (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE
- ONE OF ESSENCE ’ S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS
- WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review
- Entertainment Weekly
- O: The Oprah Magazine
- NPR
- Financial Times
- New York Independent (U.K.)
- Times (U.K.)
- Publishers Weekly
- Library Journal
- Kirkus Reviews
- Booklist
- Globe and Mail

Her name was Henrietta Lacks, but scientists know her as HeLa. She

was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first “ immortal ” human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb ’ s effects; helped lead to important advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta ’ s family did not learn of her “ immortality ” until more than twenty years after her death, when scientists investigating HeLa began using her husband and children in research without informed consent. And though the cells had launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly

shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta ’ s daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her to harvest her cells? And if her mother was so important to medicine, why couldn ’ t her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences. *Theory, Techniques, Applications Crown* The emergence of severe acute respiratory syndrome (SARS) in late 2002 and 2003 challenged the global public health community to confront a

novel epidemic that spread rapidly from its origins in southern China until it had reached more than 25 other countries within a matter of months. In addition to the number of patients infected with the SARS virus, the disease had profound economic and political repercussions in many of the affected regions. Recent reports of isolated new SARS cases and a fear that the disease could reemerge and spread have put public health officials on high alert for any indications of possible new outbreaks. This report examines the response to SARS by public health systems in individual countries, the biology of the SARS coronavirus and related coronaviruses in animals, the economic and political fallout of the SARS epidemic, quarantine law and other public health measures that apply to combating infectious diseases, and the role of international organizations and scientific cooperation in

halting the spread of SARS. The report provides an illuminating survey of findings from the epidemic, along with an assessment of what might be needed in order to contain any future outbreaks of SARS or other emerging infections.

Tsetse Biology and Ecology
Essential Cell Biology
Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish.

Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

The Fourth Industrial
Revolution Oxford
University Press

Provide quality care for clients from culturally diverse backgrounds! Transcultural Nursing, 8th Edition shows you how to apply assessment and intervention strategies to individuals from a variety of different cultures. Based on Giger and Davidhizer's unique transcultural model, this text helps you design culturally sensitive care with use of the six key aspects of cultural assessment: communication, time, space, social organization, environmental control, and biologic variations. Written by nursing educators Joyce Newman Giger and Linda G. Haddad, Transcultural Nursing shows how an understanding of cultural variations and individual patient needs will help you provide safe and effective care. UNIQUE! The six key aspects of cultural assessment

each receive a full chapter of coverage, allowing you to also apply the Transcultural Assessment Model to cultures not covered in the text. Case studies and critical decision-making questions help you apply the assessment framework to practice. 23 chapters on specific cultural groups apply this assessment model to the clients most commonly encountered in United States health care settings, with nearly all chapters written by contributors who are part of that ethnic group. Client care plans in culture-specific chapters show how to apply principles to the needs of individuals. Review questions reinforce your understanding of cultural principles, with answers found in the back of the book. Discussions of spirituality throughout the text provide a holistic,

integrated approach to culture, beliefs, and assessment. NEW co-author Dr. Linda Haddad is an internationally recognized cultural scholar who has taught nursing around the globe, has acted as an advisor and coordinator for the World Health Organization, and has published over 30 scholarly articles on nursing with a focus on understanding the cultural implication to care. UPDATED! Cultural chapters are completely revised to reflect the shifting experiences of cultural groups in our society.

Gasotransmitters: novel regulators of ion channels and transporters
Univ of California Press

The Indian Air Force, from a humble beginning in 1932 with 4 Wapiti aircraft, six Indian officers and 22 hawai sepoy, have traversed a long journey of eighty one years and crossed noteworthy milestones to become the fourth

largest air force in the world. While facing several limitations/challenges, IAF have met all the national defence requirements, and made several strategic contributions. With growing economic interests and national aspirations, expanding interests well beyond our territorial boundaries and prevailing internal security challenges, India ' s national defence requirements are also increasing. The first Gulf War was a monumental turning point in the war-time employment of aerospace power. Ever since significance of aerospace power in war, crisis and peace time has been gaining ascendancy. Kosovo and Libya are the two pertinent examples of the allies virtually relying on aerospace power, without committing any soldiers on the ground. Scrutiny of the emerging global and national trends suggests that employment of the aerospace assets, as well as nation ' s expectation from the IAF, will continue to rise. Alongside, there is an unplanned fall in flying platforms, weapon systems and pilot strength of the IAF. This study is an attempt to

analyse the history of the IAF in war as well as ' other than war operations ' ; to appreciate the emerging trends in geopolitics, aerospace technology and doctrine; and to identify the likely challenges IAF would be facing in the next two decades and beyond. Road map for transformation of the national security framework, indigenous aerospace industry and the IAF has also been suggested. The Antitrust Paradox Academic Press

Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and

covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students ' needs precisely and efficiently. For more information and sample material, visit <http://gar>

landscience.rocketmix.com/.

The Oxford Handbook of
Cyber Security Cambridge
University Press

The news media has become a
key arena for staging
environmental conflicts.

Through a range of illuminating
examples ranging from climate
change to oil spills, Media,
Environment and the Network
Society provides a timely and
far-reaching analysis of the
media politics of contemporary
environmental debates.

Organization Descriptions
and Cross-references ILRI
(aka ILCA and ILRAD)

Between the 18th and 19th
centuries, Britain experienced
massive leaps in
technological, scientific, and
economical advancement