

a thom ic science 2017

I cannot find any existing published work or readily available information regarding a specific topic called "a-thom-ic science 2017." The term appears to be a neologism or a misspelling. It's possible it refers to a niche area of atomic science research in 2017, a specific conference, a project, or even a misspelling of a related term.

To create a comprehensive article as requested, I need clarification on what "a-thom-ic science 2017" actually represents. If you can provide more context, such as the correct spelling, a related field, or any other identifying information, I can create a relevant and accurate article.

However, I can demonstrate the structure and style of such an article by creating a hypothetical article based on the assumption that "a-thom-ic science 2017" refers to advancements in atomic physics and related fields during that year. This will serve as a template, and you can adapt it with the accurate information once you provide the necessary context.

Hypothetical Article: Advancements in Atomic Science: 2017

Title: Advancements in Atomic Science: A Review of 2017

Description: This article provides a comprehensive overview of significant breakthroughs and advancements in atomic science during 2017. We explore key discoveries in atomic physics, nuclear physics, and related fields, highlighting their impact and future implications. This in-depth analysis examines the major research trends of 2017 relevant to atomic science and their contribution to our understanding of the atom.

Author: Dr. Evelyn Reed, PhD (Physics), Professor of Atomic Physics, University of California, Berkeley. Dr. Reed is a leading expert in atomic physics with over 20 years of experience in research and publication. Her work focuses on quantum computing and the manipulation of individual atoms.

Keywords: Atomic science 2017, atomic physics, nuclear physics, quantum physics, scientific advancements, 2017 scientific breakthroughs, atomic research, nuclear research, quantum computing.

Introduction:

The year 2017 witnessed substantial progress in atomic science, building upon previous breakthroughs and opening new avenues for research and technological innovation. This article delves into some of the most significant achievements, examining their theoretical underpinnings and practical applications. We will explore advancements in several key areas, including advancements in laser cooling and trapping, quantum information science, and nuclear physics.

Body (This section would be significantly expanded in a real article; this is a skeletal example):

1. Advancements in Laser Cooling and Trapping: 2017 saw continued refinement of techniques for laser cooling and trapping atoms, enabling the creation of more precise and stable atomic clocks and quantum sensors. (Details on specific research and publications would be included here, citing specific papers and researchers).

1. Progress in Quantum Information Science: The field of quantum computing benefited from

significant advancements in 2017, with several research groups reporting progress in building more powerful quantum computers using atomic systems. (Discussion of specific quantum computing advancements and their relationship to atomic science would be included here).

1. Nuclear Physics Research: Nuclear physics research in 2017 contributed to a deeper understanding of nuclear structure and reactions. (Details on specific nuclear physics discoveries and their implications would be provided).

1. Applications of Atomic Science: Advancements in atomic science are not only fundamental but also have practical applications in various fields, including medical imaging, material science, and metrology. (This section would discuss the practical applications of the aforementioned advancements).

Summary:

2017 marked a significant year in atomic science, with substantial progress in laser cooling and trapping, quantum information science, and nuclear physics. These advancements have far-reaching implications, impacting our understanding of fundamental physics and paving the way for new technologies with potential applications across multiple fields. The continued research efforts in these areas promise even greater progress in the years to come.

Publisher: Springer Nature. Springer Nature is a leading global scientific publisher known for its high-quality research publications and commitment to academic rigor.

Editor: Dr. Michael Davis, PhD (Physics), Editor-in-Chief, Journal of Atomic and Molecular Physics. Dr. Davis is a renowned physicist with expertise in atomic and molecular physics.

Conclusion:

The advancements in atomic science in 2017 highlight the dynamic and rapidly evolving nature of this field. Continued research and collaborative efforts promise to unlock even greater potential, driving innovation and pushing the boundaries of our understanding of the fundamental building blocks of matter.

FAQs:

1. What were the most impactful discoveries in atomic science in 2017?
2. How did advancements in laser cooling impact quantum computing in 2017?
3. What were the major challenges faced by researchers in atomic science in 2017?
4. What are the future prospects for atomic science based on the 2017 advancements?
5. How did 2017 advancements in atomic science contribute to medical imaging technology?
6. What role did international collaborations play in atomic science research in 2017?

7. How did funding and government policies influence atomic science research in 2017?
8. What were the ethical considerations surrounding certain advancements in atomic science during 2017?
9. How do the 2017 advancements in atomic science compare to previous years?

Related Articles (Hypothetical):

1. "Precision Measurement of Atomic Clocks in 2017": This article focuses on advancements in atomic clock technology and their implications for timekeeping and navigation.
2. "Quantum Entanglement Experiments using Atomic Systems (2017)": An analysis of experimental breakthroughs in quantum entanglement involving atomic systems.
3. "The Role of Laser Cooling in Quantum Computing (2017)": Explores the significance of laser cooling techniques in building quantum computers.
4. "Nuclear Fusion Research and Advancements in 2017": A review of progress in nuclear fusion research and its relationship to atomic science.
5. "New Discoveries in Nuclear Structure and Reactions (2017)": Discusses findings related to nuclear structure and reaction processes.
6. "Applications of Atomic Science in Medical Imaging: A 2017 Perspective": Explores the uses of atomic-level processes in medical imaging techniques.

7. "Advances in Atomic Physics and Their Impact on Metrology (2017)": Focuses on improvements in measurement science related to atomic physics.
8. "The Future of Quantum Computing: Insights from 2017 Research": Predicts future directions based on the progress in 2017.
9. "International Collaboration in Atomic Science Research in 2017": Analyses the role of international cooperation in atomic science.

Remember: This is a hypothetical example. Provide the correct information about "a-thom-ic science 2017," and I can create a much more accurate and effective article.

a thom ic science 2017: *Conserving Bogs* Rob E. Stoneman, Stuart Brooks, 1997 Bogs are fascinating landscapes for ecologists, climatologists, archaeologists, environmental historians and water managers. But many bogs have been damaged, and legislative protection - as 29 case studies demonstrate - is not enough to conserve the rest.

a thom ic science 2017: Complexity M. Mitchell Waldrop, 2019-10-01 "If you liked Chaos, you'll love Complexity. Waldrop creates the most exciting intellectual adventure story of the year" (The Washington Post). In a rarified world of scientific research, a revolution has been brewing. Its activists are not anarchists, but rather Nobel Laureates in physics and economics and pony-tailed graduates, mathematicians, and computer scientists from all over the world. They have formed an iconoclastic think-tank and their radical idea is to create a new science: complexity. They want to know how a primordial soup of simple molecules managed to turn itself into the first living cell—and what the origin of life some four billion years ago can tell us about the process of technological innovation today. This book is their story—the story of how they have tried to forge what they like to call the science of the twenty-first century. "Lucidly shows physicists, biologists, computer scientists and economists swapping metaphors and reveling in the sense that epochal discoveries are just around the corner . . . [Waldrop] has a special talent for relaying the exhilaration of moments of intellectual insight." —The New York Times Book Review "Where I enjoyed the book was when it dove into the actual question of complexity, talking about complex systems in economics, biology, genetics, computer modeling, and so on. Snippets of rare beauty here and there almost took your breath away." —Medium "[Waldrop] provides a good grounding of what may indeed be the first flowering of a new science." —Publishers Weekly

a thom ic science 2017: Decision Science for Future Earth Tetsukazu Yahara, 2021-01-29 This open access book provides a theoretical framework and case studies on decision science for regional sustainability by integrating the natural and social sciences. The cases discussed include solution-oriented transdisciplinary studies on the environment, disasters, health, governance and

human cooperation. Based on these case studies and comprehensive reviews of relevant works, including lessons learned from past failures for predictable surprises and successes in adaptive co-management, the book provides the reader with new perspectives on how we can co-design collaborative projects with various conflicts of interest and how we can transform our society for a sustainable future. The book makes a valuable contribution to the global research initiative Future Earth, promoting transdisciplinary studies to bridge the gap between science and society in knowledge generation processes and supporting efforts to achieve the UN's Sustainable Development Goals (SDGs). Compared to other publications on transdisciplinary studies, this book is unique in that evolutionary biology is used as an integrator for various areas related to human decision-making, and approaches social changes as processes of adaptive learning and evolution. Given its scope, the book is highly recommended to all readers seeking an integrated overview of human decision-making in the context of social transformation.

a thom ic science 2017: Cardiovascular Disability Institute of Medicine, Board on the Health of Select Populations, Committee on Social Security Cardiovascular Disability Criteria, 2010-12-04 The Social Security Administration (SSA) uses a screening tool called the Listing of Impairments to identify claimants who are so severely impaired that they cannot work at all and thus immediately qualify for benefits. In this report, the IOM makes several recommendations for improving SSA's capacity to determine disability benefits more quickly and efficiently using the Listings.

a thom ic science 2017: UNESCO science report UNESCO, 2015-11-09 There are fewer grounds today than in the past to deplore a North-South divide in research and innovation. This is one of the key findings of the UNESCO Science Report: towards 2030. A large number of countries are now incorporating science, technology and innovation in their national development agenda, in order to make their economies less reliant on raw materials and more rooted in knowledge. Most research and development (R&D) is taking place in high-income countries, but innovation of some kind is now occurring across the full spectrum of income levels according to the first survey of manufacturing companies in 65 countries conducted by the UNESCO Institute for Statistics and summarized in this report. For many lower-income countries, sustainable development has become an integral part of their national development plans for the next 10-20 years. Among higher-income countries, a firm commitment to sustainable development is often coupled with the desire to maintain competitiveness in global markets that are increasingly leaning towards 'green' technologies. The quest for clean energy and greater energy efficiency now figures among the research priorities of numerous countries. Written by more than 50 experts who are each covering the country or region from which they hail, the UNESCO Science Report: towards 2030 provides more country-level information than ever before. The trends and developments in science, technology and innovation policy and governance between 2009 and mid-2015 described here provide essential baseline information on the concerns and priorities of countries that could orient the implementation and drive the assessment of the 2030 Agenda for Sustainable Development in the years to come.

a thom ic science 2017: Advances in Physicochemical Properties of Biopolymers (Part 1) Martin Masuelli, Denis Renard, 2017-07-05 The last two decades have seen a number of significant advances in the methodology for evaluating the molecular weight distributions of polydispersed macromolecular systems in solution at the molecular level. This reference presents reviews on the progress in different analytical and characterization methods of biopolymers. Readers will find useful information about combinations of complex biopolymer analysis such as chromatographic or membrane based fractionation procedures combined with multiple detectors on line (multi-angle laser light scattering or MALLS). Key topics include: • refractive index, UV-Vis absorbance and intrinsic viscosity detection systems, • advances in SEC-MALLS (size exclusion chromatography coupled to multi-angle laser light scattering) and FFF-MALLS (field flow fractionation coupled on line to MALLS), • HPSEC-A4F-MALLS, matrix-assisted laser-desorption ionization (MALDI) • electrospray ionization (ESI) mass spectrometry • nuclear magnetic resonance (NMR) spectroscopy This reference is intended for students of applied chemistry and biochemistry who require

information about biopolymer analysis and characterization.

a thom ic science 2017: Introduction to the New Statistics Geoff Cumming, Robert Calin-Jageman, 2016-10-04 This is the first introductory statistics text to use an estimation approach from the start to help readers understand effect sizes, confidence intervals (CIs), and meta-analysis ('the new statistics'). It is also the first text to explain the new and exciting Open Science practices, which encourage replication and enhance the trustworthiness of research. In addition, the book explains NHST fully so students can understand published research. Numerous real research examples are used throughout. The book uses today's most effective learning strategies and promotes critical thinking, comprehension, and retention, to deepen users' understanding of statistics and modern research methods. The free ESCI (Exploratory Software for Confidence Intervals) software makes concepts visually vivid, and provides calculation and graphing facilities. The book can be used with or without ESCI. Other highlights include: - Coverage of both estimation and NHST approaches, and how to easily translate between the two. - Some exercises use ESCI to analyze data and create graphs including CIs, for best understanding of estimation methods. -Videos of the authors describing key concepts and demonstrating use of ESCI provide an engaging learning tool for traditional or flipped classrooms. -In-chapter exercises and quizzes with related commentary allow students to learn by doing, and to monitor their progress. -End-of-chapter exercises and commentary, many using real data, give practice for using the new statistics to analyze data, as well as for applying research judgment in realistic contexts. -Don't fool yourself tips help students avoid common errors. -Red Flags highlight the meaning of significance and what p values actually mean. -Chapter outlines, defined key terms, sidebars of key points, and summarized take-home messages provide a study tool at exam time. -<http://www.routledge.com/cw/cumming> offers for students: ESCI downloads; data sets; key term flashcards; tips for using SPSS for analyzing data; and videos. For instructors it offers: tips for teaching the new statistics and Open Science; additional homework exercises; assessment items; answer keys for homework and assessment items; and downloadable text images; and PowerPoint lecture slides. Intended for introduction to statistics, data analysis, or quantitative methods courses in psychology, education, and other social and health sciences, researchers interested in understanding the new statistics will also appreciate this book. No familiarity with introductory statistics is assumed.

a thom ic science 2017: Big Science, Innovation, and Societal Contributions , 2024-03-26 Big Science, Innovation, and Societal Contributions offers a connection between Big Science and its societal impacts from a multidisciplinary perspective, drawing on physics and astrophysics scholars to explain the reasoning behind their work, and how such knowledge can be applied to everyday life. Through simplifying complex scientific concepts, Big Science, Innovation, and Societal Contributions explains the evolution of Big Science experiments and what it takes to manage and maintain complex scientific experiments with a human centred approach. Further, it examines the motivations behind international efforts to develop capital-intensive and human resource-rich, large-scale multi-national scientific investments to solve fundamental research problems concerning our future. Drawing on reliable scientific evidence, multi-disciplinary perspectives, and personal insights from collider physics, detectors, accelerator, and telescopes research, the volume outlines the mechanisms, benefits, and methodologies, as well as the potential challenges and short-comings, of Big Science, to learn and reflect on for future initiatives. This is an open access title available under the terms of a [CC BY-NC-ND 4.0 International] licence. It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations.

a thom ic science 2017: Nano-Bioremediation: Fundamentals and Applications Hafiz M. N. Iqbal, Muhammad Bilal, Tuan Anh Nguyen, 2021-11-10 Nano-Bioremediation: Fundamentals and Applications explores how nano-bioremediation is used to remedy environmental pollutants. The book's chapters focus on the design, fabrication and application of advanced nanomaterials and their integration with biotechnological processes for the monitoring and treatment of pollutants in environmental matrices. It is an important reference source for materials scientists, engineers and environmental scientists who are looking to increase their understanding of bioremediation at the

nanoscale. The mitigation of environmental pollution is the biggest challenge to researchers and the scientific community, hence this book provides answers to some important questions. As an advanced hybrid technology, nano-bioremediation refers to the integration of nanomaterials and bioremediation for the remediation of pollutants. The rapid pace of urbanization, massive development of industrial sectors, and modern agricultural practices all cause a controlled or uncontrolled release of environmentally-related hazardous contaminants that are seriously threatening every key sphere, including the atmosphere, hydrosphere, biosphere, lithosphere, and anthroposphere. Explores the current and potential applications of nano-bioremediation in the remediation of hazardous pollutants Outlines the major properties and classes of nanomaterials that make them efficient bioremediation agents Assesses the major challenges of effectively implementing bioremediation techniques at the nanoscale

a thom ic science 2017: *Computational Geometry* Franco P. Preparata, Michael I. Shamos, 2012-12-06 From the reviews: This book offers a coherent treatment, at the graduate textbook level, of the field that has come to be known in the last decade or so as computational geometry. ... The book is well organized and lucidly written; a timely contribution by two founders of the field. It clearly demonstrates that computational geometry in the plane is now a fairly well-understood branch of computer science and mathematics. It also points the way to the solution of the more challenging problems in dimensions higher than two. #Mathematical Reviews#1 ... This remarkable book is a comprehensive and systematic study on research results obtained especially in the last ten years. The very clear presentation concentrates on basic ideas, fundamental combinatorial structures, and crucial algorithmic techniques. The plenty of results is clever organized following these guidelines and within the framework of some detailed case studies. A large number of figures and examples also aid the understanding of the material. Therefore, it can be highly recommended as an early graduate text but it should prove also to be essential to researchers and professionals in applied fields of computer-aided design, computer graphics, and robotics. #Biometrical Journal#2

a thom ic science 2017: *The Wiley Blackwell Handbook of the Psychology of the Internet at Work* Guido Hertel, Dianna L. Stone, Richard D. Johnson, 2017-11-13 This authoritative Wiley Blackwell Handbook in Organizational Psychology focuses on individual and organizational applications of Internet-enabled technologies within the workplace. The editors have drawn on their collective experience in collating thematically structured material from leading writers based in the US, Europe, and Asia Pacific. Coinciding with the growing international interest in the application of psychology to organizations, the work offers a unique depth of analysis from an explicitly psychological perspective. Each chapter includes a detailed literature review that offers academics, researchers, scientist-practitioners, and students an invaluable frame of reference. Coverage is built around competencies set forth by regulatory agencies including the APA and BPS, and includes E-Recruiting, E-Leadership, and E-Learning; virtual teams; cyberloafing; ergonomics of human-computer interaction at work; permanent accessibility and work-life balance; and trust in online environments.

a thom ic science 2017: *Biology* ANONIMO, Barrons Educational Series, 2001-04-20

a thom ic science 2017: *Comprehensive Geriatric Assessment* Alberto Pilotto, Finbarr C. Martin, 2017-12-29 This book offers an up-to-date review on the principles and practice of multidimensional assessment and management of the older individual, which represents the cornerstone of modern clinical practice in the elderly. The early chapters cover the main elements and scope of the comprehensive geriatric approach and explain the pathways of care from screening and case finding through to in-depth assessment and treatment planning. Subsequent chapters review the evidence of how best to apply the multidimensional assessment and management approach in defined healthcare settings and within specific clinical areas, such as cancer and surgery. Finally, the education and training challenges are reviewed and the prospects for future clinical service and research in this important field are examined. The book is very timely given the recent advances in application of this approach, which reflect the growing international realization that older people are "core business" in many clinical areas where the role of specialist geriatric

medicine has hitherto been limited. Accordingly, the book will be relevant to a wide range of clinicians. The authorship comprises many of the best known and widely published experts in their respective fields.

a thom ic science 2017: Models of Seizures and Epilepsy Asla Pitkänen, Paul Buckmaster DVM PhD, Aristeia S Galanopoulou, Solomon L. Moshé, 2017-06-14 Models of Seizures and Epilepsy, Second Edition, is a valuable, practical reference for investigators who are searching for the most appropriate laboratory models to address key questions in the field. The book also provides an important background for physicians, fellows, and students, offering insight into the potential for advances in epilepsy research as well as R&D drug development. Contents include the current spectrum of models available to model different epilepsy syndromes, epilepsy in transgenic animals, comorbidities in models of epilepsy, and novel technologies to study seizures and epilepsies in animals. - Provides a comprehensive reference detailing animal models of epilepsy and seizure - Offers insights on the use of novel technologies that can be applied in experimental epilepsy research - Edited by leading experts in the field that provide not only technical reviews of these models but also conceptual critiques - Comments on the strengths and limitations of various models, including their relationship to clinical phenomenology and their value in developing better understanding and treatments

a thom ic science 2017: Science and Moral Imagination Matthew J. Brown, 2020-11-17 The idea that science is or should be value-free, and that values are or should be formed independently of science, has been under fire by philosophers of science for decades. Science and Moral Imagination directly challenges the idea that science and values cannot and should not influence each other. Matthew J. Brown argues that science and values mutually influence and implicate one another, that the influence of values on science is pervasive and must be responsibly managed, and that science can and should have an influence on our values. This interplay, he explains, must be guided by accounts of scientific inquiry and value judgment that are sensitive to the complexities of their interactions. Brown presents scientific inquiry and value judgment as types of problem-solving practices and provides a new framework for thinking about how we might ethically evaluate episodes and decisions in science, while offering guidance for scientific practitioners and institutions about how they can incorporate value judgments into their work. His framework, dubbed “the ideal of moral imagination,” emphasizes the role of imagination in value judgment and the positive role that value judgment plays in science.

a thom ic science 2017: Sustainable Development Goals Pia Katila, Carol J. Pierce Colfer, Wil de Jong, Glenn Galloway, Pablo Pacheco, Georg Winkel, 2019-12-12 A global assessment of potential and anticipated impacts of efforts to achieve the SDGs on forests and related socio-economic systems. This title is available as Open Access via Cambridge Core.

a thom ic science 2017: Plant and Algal Hydrogels for Drug Delivery and Regenerative Medicine Tapan Kumar Giri, Bijaya Ghosh, 2021-06-12 Plant and Algal Hydrogels for Drug Delivery and Regenerative Medicine offers a materials-focused and systematic overview of biopolymeric hydrogels utilized for biomedical applications. The book details the synthesis and characterization of plant and algal-based hydrogels, with each chapter addressing a separate polysaccharide hydrogel type. Specific applications in drug delivery and regenerative medicine are also discussed, highlighting the efficacy, biocompatibility, benefits and challenges for each polysaccharide hydrogel subtype. There is increasing demand for biomaterials which reduce/prevent the host response, inflammation and rejection, hence this book provides a timely resource. Biopolymeric hydrogels have skyrocketed because of their necessity in in vivo applications. They create an environment similar to living tissue, which is both biocompatible and biodegradable. Plant and algal polysaccharides in particular are well-equipped with functional groups that are easily modified for beneficial results. - Systematically covers each plant and algal polysaccharide hydrogel subtype, from starch-based hydrogels to pectin and alginate-based hydrogels - Provides an end-to-end description of the synthesis, characterization and application of biopolymeric hydrogels for drug delivery and regenerative medicine - Appeals to a diverse readership, including those in biomedicine, pharmacy,

polymer chemistry, biochemistry, materials science, biomedical engineering, and other biotechnology related disciplines

a thom ic science 2017: Clean and White Carl A. Zimring, 2017-10-03 From the age of Thomas Jefferson to the Memphis Public Workers strike of 1968 through the present day, ideas about race-- whites are clean and non-whites are dirty-- have shaped where people have lived, where people have worked, and how American society's wastes have been managed. Zimring draws on historical evidence from statesmen, scholars, sanitarians, novelists, activists, advertisements, and the United States Census of Population to reveal changing constructions of environmental racism, focusing on constructions of race and hygiene. The bigoted idea that non-whites are dirty remains deeply ingrained in the national psyche, continuing to shape social and environmental inequalities.

a thom ic science 2017: Fungi and Fungal Products in Human Welfare and Biotechnology Tulasi Satyanarayana, Sunil Kumar Deshmukh, 2023-05-13 This book presents various biotechnological applications of the fungal systems in pharmaceuticals, nutraceuticals, textile industry, bioremediation, biofuel, and the production of biomolecules. It discusses the important role of fungal secondary metabolites in human welfare and nutrition. It explores fungi as the vital sources of novel substances with antidiabetic, antibiotic as well as prebiotic properties. The book further describes the natural and unique ability of fungi to biodegrade macro- and microplastics by using them as a source of carbon and energy. Notably, it presents the properties and applications of bioactive fungal polysaccharides and discusses the latest developments in utilizing these biopolymers in human nutrition. In addition, the book examines the production of biodegradable and sustainable natural colorants from fungal sources. This book is a valuable source for mycologists, biotechnologists, and microbiologists for understanding the important role of fungi in biotechnology.

a thom ic science 2017: Intelligent Systems and Networks Duc-Tan Tran, Gwanggil Jeon, Thi Dieu Linh Nguyen, Joan Lu, Thu-Do Xuan, 2021-05-12 This book presents Proceedings of the International Conference on Intelligent Systems and Networks (ICISN 2021), held at Hanoi in Vietnam. It includes peer-reviewed high-quality articles on intelligent system and networks. It brings together professionals and researchers in the area and presents a platform for exchange of ideas and to foster future collaboration. The topics covered in this book include—foundations of computer science; computational intelligence language and speech processing; software engineering software development methods; wireless communications signal processing for communications; electronics track IoT and sensor systems embedded systems; etc.

a thom ic science 2017: Scaling in Ecology with a Model System Aaron M. Ellison, Nicholas J. Gotelli, 2021-08-03 Scale - the understanding of ecological phenomena through levels of biological organization across time and space - is one of most important concepts in ecology. It is often challenging for ecologists to find systems that lend themselves to study across scales; however, *Sarracenia*, a pitcher plant indigenous to the eastern United States, is unique because it can be studied at a hierarchy of scales: individuals, communities, and whole ecosystems. Ecologists Aaron Ellison and Nicolas Gotelli have studied *Sarracenia* for decades and, in this book, they synthesize their research and show how this system can inform the broad and challenging question of scaling in ecology. The authors' goal is to deepen the current understanding of major ecological processes, and how they operate across scales--

a thom ic science 2017: The Sacred & the Digital F.G. (Frank) Bosman, 2019-04-18 Video game studies are a relative young but flourishing academic discipline. But within game studies, however, the perspective of religion and spirituality is rather neglected, both by game scholars and religion scholars. While religion can take different shapes in digital games, ranging from material and referential to reflexive and ritual, it is not necessarily true that game developers depict their in-game religions in a positive, confirming way, but ever so often games approach the topic critically and disavowingly. The religion criticisms found in video games can be categorized as follows: religion as (1) fraud, aimed to manipulate the uneducated, as (2) blind obedience towards an invisible but ultimately non-existing deity/ies, as (3) violence against those who do not share the

same set of religious rules, as (4) madness, a deranged alternative for logical reasoning, and as (5) suppression in the hands of the powerful elite to dominate and subdue the masses into submission and obedience. The critical depictions of religion in video games by their developers is the focus of this special issue.

a thom ic science 2017: Handbook of Superconductivity David A. Cardwell, David C. Larbalestier, Aleksander Braginski, 2022-07-05 This is the last of three volumes of the extensively revised and updated second edition of the Handbook of Superconductivity. The past twenty years have seen rapid progress in superconducting materials, which exhibit one of the most remarkable physical states of matter ever to be discovered. Superconductivity brings quantum mechanics to the scale of the everyday world. Viable applications of superconductors rely fundamentally on an understanding of these intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs. While the first volume covers fundamentals and various classes of materials, the second addresses processing of these into various shapes and configurations needed for applications, and ends with chapters on refrigeration methods necessary to attain the superconducting state and the desired performance. This third volume starts with a wide range of methods permitting one to characterize both the materials and various end products of processing. Subsequently, diverse classes of both large scale and electronic applications are described. Volume 3 ends with a glossary relevant to all three volumes. Key Features: Covers the depth and breadth of the field Includes contributions from leading academics and industry professionals across the world Provides hands-on familiarity with the characterization methods and offers descriptions of representative examples of practical applications A comprehensive reference, the handbook is suitable for both graduate students and practitioners in experimental physics, materials science, and multiple engineering disciplines, including electronic and electrical, chemical, mechanical, metallurgy and others.

a thom ic science 2017: Modeling Processes and Their Interactions in Cropping Systems Lajpat R. Ahuja, Kurt C. Kersebaum, Ole Wendroth, 2022-08-09 Modeling Processes and Their Interactions in Cropping Systems A complete discussion of soil-plant-climate-management processes In Modeling Processes and Their Interactions in Cropping Systems: Challenges for the 21st Century, a team of distinguished researchers delivers a comprehensive and up-to-date scientific textbook devoted to teaching the modeling of soil-plant-climate-management processes at the upper undergraduate and graduate levels. The book emphasizes the new opportunities and paradigms available to modern lab and field researchers and aims to improve their understanding and quantification of individual processes and their interactions. The book helps readers quantify field research results in terms of the fundamental theory and concepts broadly generalizable beyond specific sites, as well as predict experimental results from knowledge of the fundamental factors that determine the environment and plant growth in different climates. Readers will also discover: An introduction to water and chemical transport in the soil matrix and macropores Explorations of heat transport, water balance, snowpack, and soil freezing Discussions of merging machine learning with APSIM models to improve the evaluation of the impact of climate extremes on wheat yields in Australia Examinations of the quantification and modeling of management effects on soil properties, including discussions of tillage, reconsolidation, crop residues, and crop management The book will be essential reading for anyone interested in the 2030 breakthroughs in agriculture identified by the National Academies of Sciences, Engineering, and Medicine.

a thom ic science 2017: Intelligent Disobedience Ira Chaleff, 2015-07-07 Torture in Abu Ghraib prison. Corporate fraud. Falsified records at Veterans Administration hospitals. Teachers pressured to feed test answers to students. These scandals could have been prevented if, early on, people had said no to their higher-ups. Ira Chaleff discusses when and how to disobey inappropriate orders, reduce unacceptable risk, and find better ways to achieve legitimate goals. He delves into the psychological dynamics of obedience, drawing in particular on what Stanley Milgram's seminal Yale experiments-in which volunteers were induced to administer shocks to innocent people-teach us about how to reduce compliance with harmful orders. Using vivid examples of historical events and

everyday situations, he offers advice on judging whether intelligent disobedience is called for, how to express opposition, and how to create a culture where citizens are educated and encouraged to think about whether orders make sense. --

a thom ic science 2017: Agency, Norms, Inquiry, and Artifacts: Essays in Honor of Risto Hilpinen Paul McNamara, Andrew J. I. Jones, Mark A. Brown, 2022-04-14 The book contains a collection of chapters written by experts from the fields of philosophy, law, logic, computer science and artificial intelligence who pay tribute to Professor Risto Hilpinen's impressive work on the logic of induction, on deontic logic and epistemology, and on philosophy of science. In addition to an introduction by the editors, a section on Professor Hilpinen's positions, professional services and honors, as well as a complete bibliography of his writings, the editors, McNamara, Jones and Brown, have compiled a multidisciplinary global cross-section of academic contemporaries that provides insights and perspectives on Hilpinen's influence and legacy. The essays reflect central aspects of Risto Hilpinen's research interests, and offer further contributions to some of the philosophical fields for which he is best known: applied modal logic, including deontic logic (from the ancient Greek δέον déon, pertaining to the concepts of duty and obligation), the semantics of normative language, the logic of action, and the theory of practical reasoning; the analysis of the concept of artifact; and the theory of semiotics in the tradition of Charles Peirce. The presence in the collection of several papers relating to deontic logic underlines Hilpinen's importance in that area, in which his publications have long been recognized as standard works. The book is an essential collection of ideas for all those who feel at home in a variety of formal disciplines, from propositional logic to the logic of artificial intelligence.

a thom ic science 2017: *American Fascism* Brynn Tannehill, 2021-04-20 Trump is out of the White House, but American democracy is on the ropes and teetering on the brink of competitive authoritarianism controlled by theocrats and oligarchs. With its cherished institutions hobbled, political norms trampled, guardrails severely damaged, and body politic divided by chasms of race and geography, can the U.S. survive another administration dedicated to establishing de facto single party rule? In this compelling, comprehensive analysis, Brynn Tannehill draws on her expertise in studying the collapse of weak democracies around the globe and her previous research in law, political science, economics and right-wing populism to explain the trajectory of how we got here and the current threats we face. Most importantly, she analyzes what the characteristics of fascism are, if they are applicable to the base of the GOP today, and what that means for us should they succeed in establishing permanent minoritarian rule. *American Fascism* is a surgical analysis of 250 years of struggle for democracy in America and a prescient prognosis of what's to come if we do not heed Tannehill's warnings and advice.

a thom ic science 2017: Intelligent Computing and Networking Valentina Emilia Balas, Vijay Bhaskar Semwal, Anand Khandare, Megharani Patil, 2020-10-22 This book gathers high-quality peer-reviewed research papers presented at the International Conference on Intelligent Computing and Networking (IC-ICN 2020), organized by the Computer Department, Thakur College of Engineering and Technology, in Mumbai, Maharashtra, India, on February 28-29, 2020. The book includes innovative and novel papers in the areas of intelligent computing, artificial intelligence, machine learning, deep learning, fuzzy logic, natural language processing, human-machine interaction, big data mining, data science and mining, applications of intelligent systems in healthcare, finance, agriculture and manufacturing, high-performance computing, computer networking, sensor and wireless networks, Internet of Things (IoT), software-defined networks, cryptography, mobile computing, digital forensics and blockchain technology.

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a thom ic science 2017: Making Cities Resilient Vishwa Raj Sharma, Chandrakanta, 2019-02-08 As the world has transformed, so have cities. Today, cities are home to 54 percent of the world's population, and by the middle of this century that figure will likely rise to 66 percent. According to the United Nations (UN) Habitat I (1972), Habitat II (1996) and Habitat III (2016) summits, cities are facing many serious challenges, including growing inequality, security concerns and the worsening impacts of climate change. Uncontrolled urbanization has led to many problems (haphazard growth of areas, emergence of slums, inadequate water and power supply, poor sanitation, shortage of transport and other civic amenities, shrinking green spaces, pollution, crime, and urban disaster risks such as fire, flood, road and industrial accidents, etc.). Worldwide, communities at the international, national and local level are continuously working to improve human habitats. In order to make our planet more sustainable, the UN has moved from the Millennium Development Goals (MDG) to the Sustainable Development Goals (SDG). Among the latter, the aim of SDG 11 is to "...make cities and human settlements inclusive, safe, resilient and sustainable." In light of these challenges, various terms have emerged to help understand urban issues. Visualizing the problem, the United Nations program "Making Cities Resilient" is focused on mitigating the disaster risk in urban areas. This book analyzes terms such as: sustainable, resilient, livable, inclusive, smart and world class city, which have emerged in the process of combating urban challenges in today's world. The book addresses emerging concepts for cities, challenges and potentials, urban environments, health and planning/policies. Covering 14 large cities in India, as well as case studies from Japan, Singapore, Thailand, Malaysia, Poland and Sweden, it provides a regional dimension to and micro-level perspective on urban issues.

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a thom ic science 2017: Wetland Carbon and Environmental Management Ken W. Krauss, Zhiliang Zhu, Camille L. Stagg, 2021-11-23 Explores how the management of wetlands can influence carbon storage and fluxes. Wetlands are vital natural assets, including their ability to take-up atmospheric carbon and restrict subsequent carbon loss to facilitate long-term storage. They can be deliberately managed to provide a natural solution to mitigate climate change, as well as to help offset direct losses of wetlands from various land-use changes and natural drivers. Wetland Carbon and Environmental Management presents a collection of wetland research studies from around the world to demonstrate how environmental management can improve carbon sequestration while enhancing wetland health and function. Volume highlights include: Overview of carbon storage in

the landscape Introduction to wetland management practices Comparisons of natural, managed, and converted wetlands Impact of wetland management on carbon storage or loss Techniques for scientific assessment of wetland carbon processes Case studies covering tropical, coastal, inland, and northern wetlands Primer for carbon offset trading programs and how wetlands might contribute The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals.

a thom ic science 2017: Biogeochemistry of Wetlands K. Ramesh Reddy, Ronald D. DeLaune, Patrick W. Inglett, 2022-09-10 The globally important nature of wetland ecosystems has led to their increased protection and restoration as well as their use in engineered systems. Underpinning the beneficial functions of wetlands are a unique suite of physical, chemical, and biological processes that regulate elemental cycling in soils and the water column. This book provides an in-depth coverage of these wetland biogeochemical processes related to the cycling of macroelements including carbon, nitrogen, phosphorus, and sulfur, secondary and trace elements, and toxic organic compounds. In this synthesis, the authors combine more than 100 years of experience studying wetlands and biogeochemistry to look inside the black box of elemental transformations in wetland ecosystems. This new edition is updated throughout to include more topics and provide an integrated view of the coupled nature of biogeochemical cycles in wetland systems. The influence of the elemental cycles is discussed at a range of scales in the context of environmental change including climate, sea level rise, and water quality. Frequent examples of key methods and major case studies are also included to help the reader extend the basic theories for application in their own system. Some of the major topics discussed are: Flooded soil and sediment characteristics Aerobic-anaerobic interfaces Redox chemistry in flooded soil and sediment systems Anaerobic microbial metabolism Plant adaptations to reducing conditions Regulators of organic matter decomposition and accretion Major nutrient sources and sinks Greenhouse gas production and emission Elemental flux processes Remediation of contaminated soils and sediments Coupled C-N-P-S processes Consequences of environmental change in wetlands# The book provides the foundation for a basic understanding of key biogeochemical processes and its applications to solve real world problems. It is detailed, but also assists the reader with box inserts, artfully designed diagrams, and summary tables all supported by numerous current references. This book is an excellent resource for senior undergraduates and graduate students studying ecosystem biogeochemistry with a focus in wetlands and aquatic systems.

a thom ic science 2017: *Engineering, Medicine and Science at the Nano-Scale* Stephen J. Fonash, Marcel Van de Voorde, 2018-08-17 Students at universities the world over will benefit from the authors' concise treatment, arising out of lectures given for a graduate and advanced undergraduate course at Penn State University (USA) and University of Technology Delft (NL). The textbook begins by addressing, in general terms, the phenomena and peculiarities that occur at the nanoscale. In the following five chapters, readers are introduced in detail to nanoscale physics, chemistry, materials science, and biology, followed by chapters on synthesis and fabrication as well as characterization at the nanoscale. In the next four chapters a variety of exemplary applications taken from a wide range of sectors are also presented and discussed. Concerns for safety, environmental impact, workforce development, economic wellbeing, and societal change issues arising from nanotechnology are woven throughout the book and additionally form the focus of the last two chapters.

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