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A Place for Science and Technology Studies Science and Technology Policy - Volume II Handbook for Scientific and Technical Research A Brief Guide to Sources of Scientific and Technical Information Science and the Scientific Mind Science and Religion Encyclopedia of Science and Technology Communication The Education of Users of Scientific and Technical Information Science and Evidence for Design in the Universe Strengthening American Science Report of the Committee of the Privy Council for Scientific and Industrial Research for the Year 1916-17 Assessing Scientific, Reading and Mathematical Literacy A Framework for PISA 2006 (Japanese version) Preserving Scientific Data on Our Physical Universe Scientific and Technical Translation Explained Beyond Reason Every Child a Scientist Critical Thinking and the Scientific Method Scientific and Technical Aerospace Reports The Best American Science and Nature Writing 2020 The Whats of a Scientific Life Introduction to Scientific and Technical Computing Escape from the Ivory Tower Interagency Coordination of Federal Scientific Research and Development Fundamental Measures and Constants for Science and Technology The Brilliant Zewail Writing in the Sciences Bulletin of the Atomic Scientists Scientific Visualization Bulletin of the Atomic Scientists Annual Report of the Council for Scientific and Industrial Research The Future of Science Bulletin of the Atomic Scientists The Road to Stockholm Charter of Ethics of Science and Technology in the Arab Region The Truth about Science and Religion Mathematical Methods in Science and Engineering Methodological Prospects for Scientific Research Writing for Science and Engineering Gaither's Dictionary of Scientific Quotations Journal of the Council for Scientific and Industrial Research

A Place for Science and Technology Studies

2024-01-09

an exploration of science and technology studies in eight different places and the possibilities that arise for observation intervention and collaboration where does science and technology studies sts belong in a place for science and technology studies jane calvert takes readers through eight different rooms the laboratory the conference room the classroom the coffee room the art studio the bioethics building the policy room and the ivory tower investigating the possibilities and limitations of each for sts research drawing from over a decade of work in synthetic biology calvert explores three different orientations for sts observation intervention and collaboration to ask whether there is a place for sts which as an undisciplined field often finds itself on the periphery of traditional institutions or dependent on more generously funded stem disciplines using examples of failures and successes and tackling enduring concerns about the relations between social scientific researchers and their fields of study calvert argues for an approach to sts that is collaborative yet allows for autonomy

Science and Technology Policy - Volume II

2009-07-20

science and technology policy theme is a component of encyclopedia of technology information and systems management resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias science and technology policy covers all the public sector measures designed for the creation funding support and mobilization of scientific and technological resources the content of the theme on science and technology policy provides the essential aspects and a myriad of issues of great relevance to our world such as science and technology policy international dimensions of science and technology policy the innovation system the policy making process in science and technology regional perspectives a new scenario for science and technology policies in the developed and developing world these two volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

Handbook for Scientific and Technical Research

1992

this reference covers the topics necessary to undertake research projects in the sciences for instance it details how to select a research problem how to pursue the research goals how to search the literature how to determine whether or not a measurement is significant how to test a scientific modelor theory and how to write a final report or research paper intended for any scientific professional in contact with research gathering in industry university or governmental institution

A Brief Guide to Sources of Scientific and Technical Information

1969

this scarce antiquarian book is a facsimile reprint of the original due to its age it may contain imperfections such as marks notations marginalia and flawed pages because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to the original work

Science and the Scientific Mind

2009-07

from the heliocentric controversy and evolution to debates on biotechnology and the environment this book offers a balanced introduction to the key issues in science and religion a balanced introductory textbook which fully spans the interface between science and religion and includes illustrations of scientific concepts throughout explores key historical issues including the heliocentric controversy and evolution but also topics of current importance such as biotechnology and environmental issues appendices include a wide range of biblical readings excerpts from early philosophers theologians and scientists including aristotle aquinas hume kant galileo newton and darwin and short works from twentieth and twenty first century scientists and theologians accessibly structured in to sections covering cosmology evolution and ethics in a scientific age provides significant coverage of scientific information and balanced explanations of the key debates for introductory students

Science and Religion

2010-03-18

the explosion of scientific information is exacerbating the information gap between richer poorer educated less educated publics the proliferation of media technology and the popularity of the internet help some keep up with these developments but also make it more likely others fall further behind this is taking place in a globalizing economy and society that further complicates the division between information haves and have nots and compounds the challenge of communicating about emerging science and technology to increasingly diverse audiences journalism about science and technology must fill this gap yet journalists and journalism students themselves struggle to keep abreast of contemporary scientific developments scientist aided by public relations and public information professionals must get their stories out not only to other scientists but also to broader public audiences funding agencies increasingly expect their grantees to engage in outreach and education and such activity can be seen as both a survival strategy and an ethical imperative for taxpayer supported university based research science communication often in new forms must expand to meet all these needs providing a comprehensive introduction to students professionals and scholars in this area is a unique challenge because practitioners in these fields must grasp both the principles of science and the principles of science communication while understanding the social contexts of each for this reason science journalism and science communication are often addressed only in advanced undergraduate or graduate specialty courses rather than covered exhaustively in lower division courses even so those entering the field rarely will have a comprehensive background in both science and communication studies this circumstance underscores the importance of compiling useful reference materials the encyclopedia of science and technology communication presents resources and strategies for science communicators including theoretical material and background on recent controversies and key institutional actors and sources science communicators need to understand more than how to interpret scientific facts and conclusions they need to understand basic elements of the politics sociology and philosophy of science as well as relevant media and communication theory principles of risk communication new trends and how to evaluate the effectiveness of science communication programmes to mention just a few of the major challenges this work will help to develop and enhance such understanding as it addresses these challenges and more topics covered include advocacy policy and research organizations environmental and health communication philosophy of science media theory and science communication informal science education science journalism as a profession risk communication theory public understanding of science pseudo science in the news special problems in reporting science and technology science communication ethics

Encyclopedia of Science and Technology Communication

2010-07-14

a collection of essays in which a mathematician a biochemist and a philosopher of science explore the possibility of developing a reliable method for detecting intelligent life and examine evidence for design in life and the universe

The Education of Users of Scientific and Technical Information

1973

this book advises the national archives and records administration and federal r d agencies on the long term retention of scientific and technical data particularly in electronic formats it proposes the creation of a national scientific information resource federation which would apply a strategic data life cycle management plan to better link the government s existing scientific data holdings and improve public access to those holdings the book is expected to draw attention to data management concerns in the context of the current government emphasis on promoting a national information infrastructure and to make a significant contribution to improving the inadequate situation regarding our nation s valuable scientific data and information resources

Science and Evidence for Design in the Universe

2000-01-01

from microbiology to nuclear physics and chemistry to software engineering scientific and technical translation is a complex activity that involves communicating specialized information on a variety of subjects across multiple languages it requires expert linguistic knowledge and writing skills combined with the ability to research and understand complex concepts and present them to a range of different audiences using a combination of interdisciplinary research real world examples drawn from professional practice and numerous learning activities this introductory textbook equips the student with the knowledge and skills needed to get started in this exciting and challenging field it examines the origins and history of scientific and technical translation and the people tools and processes involved in translating scientific and technical texts scientific and technical translation explained provides an overview of the main features of scientific and technical discourse as well as the different types of documents produced a series of detailed case studies highlight various translation challenges and introduce a range of strategies for dealing with them a variety of resources and exercises are included to make learning effective and enjoyable additional resources and activities are available on facebook

Strengthening American Science

1958

a mind bending excursion to the limits of science and mathematics are some scientific problems insoluble in beyond reason internationally acclaimed math and science author a k dewdney answers this question by examining eight insurmountable mathematical and scientific roadblocks that have stumped thinkers across the centuries from ancient mathematical conundrums such as squaring the circle first attempted by the pythagoreans to g del s vexing theorem from perpetual motion to the upredictable behavior of chaotic systems such as the weather a k dewdney phd ontario canada was the author of scientific american s computer recreations column for eight years he has written several critically acclaimed popular math and science books including a mathematical mystery tour 0 471 40734 8 yes we have no neutrons 0 471 29586 8 and 200 of nothing 0 471 14574 2

Report of the Committee of the Privy Council for Scientific and Industrial Research for the Year 1916-17

1917

as more schools begin to implement the national science education standards adults who care about the quality of k 12 science education in their communities may want to help their local schools make the transition this booklet provides guidance to parents and others explains why high quality science education is important for all children and young adults and shows how the quality of school science programs can be measured center for science mathematics and engineering education staff 1998 32 pages 8 5 x 11 single copy 10 00 2 9 copies 7 00

each 10 or more copies 4 50 each no other discounts apply

Assessing Scientific, Reading and Mathematical Literacy A Framework for PISA 2006 (Japanese version)

2007-08-10

the book exposes many of the misunderstandings about the scientific method and its application to critical thinking it argues for a better understanding of the scientific method and for nurturing critical thinking in the community this knowledge helps the reader to analyze issues more objectively and warns about the dangers of bias and propaganda the principles are illustrated by considering several issues that are currently being debated these include anthropogenic global warming often loosely referred to as climate change dangers to preservation of the great barrier reef and the expansion of the gluten free food market and genetic engineering

Preserving Scientific Data on Our Physical Universe

1995-04-19

a collection of the best science and nature writing published in north america in 2019 guest edited by new york times best selling author and ground breaking physicist dr michio kaku scientists and science writers have a monumental task making science exciting and relevant to the average person so that they care writes renowned american physicist michio kaku if we fail in this endeavor then we must face dire consequences from the startlingly human abilities of ai to the devastating accounts of california s forest fires to the impending traffic jam on the moon the selections in this year s best american science and nature writing explore the latest mysteries and marvels occurring in our labs and in nature these gripping narratives masterfully translate the work of today s brightest scientists offering a clearer view of our world and making us care the best american science and nature writing 2020 includes rivka galchen adam gopnik ferris jabr joshua sokol melinda wenner moyer siddhartha mukherjee natalie wolchover and others

Scientific and Technical Translation Explained

2014-04-08

this book completes a scientific life trilogy of books following on from the hows i e skills and the whys is now the whats of a scientific life starting with just what is science then on to what is physics what is chemistry and what is biology the book discusses career situations in terms of types of obstacles faced there follow examples of what science has achieved as well as plans and opportunities the contexts for science are dependencies of science on mathematics how science cuts across disciplines and the importance of engineering and computer software what science is as a process is that it is distinctly successful in avoiding or dealing with failures most recently a radical change in what is science is the merger of the international council of scientific unions and the international social sciences council key features dissects what is science and its contexts provides wide ranging case studies of science and discovery based directly on the author s many decades in science the author has outstanding experience in mentoring and career development and also in outreach activities for the public and students of all ages the world of science today involves a merger of the sciences and the social sciences

Beyond Reason

2004-04-23

created to help scientists and engineers write computer code this practical book addresses the important tools and techniques that are necessary for scientific computing but which are not yet commonplace in science and engineering curricula this book contains chapters summarizing the most important topics that computational researchers need to know about it leverages the viewpoints of passionate experts involved with scientific computing courses around the globe and aims to be a starting point for new computational scientists and a

reference for the experienced each contributed chapter focuses on a specific tool or skill providing the content needed to provide a working knowledge of the topic in about one day while many individual books on specific computing topics exist none is explicitly focused on getting technical professionals and students up and running immediately across a variety of computational areas

Every Child a Scientist

1998-01-02

most scientists and researchers aren t prepared to talk to the press or to policymakers or to deal with backlash many researchers have the horror stories to prove it what s clear according to nancy baron is that scientists journalists and public policymakers come from different cultures they follow different sets of rules pursue different goals and speak their own language to effectively reach journalists and public officials scientists need to learn new skills and rules of engagement no matter what your specialty the keys to success are clear thinking knowing what you want to say understanding your audience and using everyday language to get your main points across in this practical and entertaining guide to communicating science baron explains how to engage your audience and explain why a particular finding matters she explores how to ace your interview promote a paper enter the political fray and use new media to connect with your audience the book includes advice from journalists decision makers new media experts bloggers and some of the thousands of scientists who have participated in her communication workshops many of the researchers she has worked with have gone on to become well known spokespeople for science related issues baron and her protégées describe the risks and rewards of speaking up how to deal with criticism and the link between communications and leadership the final chapter leading the way offers guidance to scientists who want to become agents of change and make your science matter whether you are an absolute beginner or a seasoned veteran looking to hone your skills escape from the ivory tower can help make your science understood appreciated and perhaps acted upon

Critical Thinking and the Scientific Method

2018-05-21

a book that enlightens the life of ahmed h zewail from his early childhood to his days at caltech born in damanhur egypt ahmed h zewail grew up with his family studied at a local primary school and eventually graduated from alexandria university after completing his schooling he went on to teach chemistry to undergraduates at the university of alexandria his contributions are not only to science but also to society as a pioneer scientist he returned to egypt and had his fingerprints on all the initiatives to encourage scientific research and to upgrade the scientific and technological capabilities of his countrymen he founded the zewail city for science and technology a non profit educational institution for research and innovation in cairo a nobel prize winner inventor of the ground breaking four dimensional microscopy and together with his other accolades ahmed h zewail is one of the greatest scientists this century has produced his foresight for the development of both the scientific and cultural fields in egypt has made him a brilliant jewel for egypt and the world

Scientific and Technical Aerospace Reports

1966

this rhetorical multi disciplinary guide discusses the major genres of science writing including research reports grant proposals conference presentations and a variety of forms of public communication writing in the sciences combines a descriptive approach helping students to recognize distinctive features of common genres in their fields with a rhetorical focus helping them to analyze how why and for whom texts are created by scientists multiple samples from real research cases illustrate a range of scientific disciplines and audiences for scientific research along with the corresponding differences in focus arrangement style and other rhetorical dimensions comparisons among disciplines provide the opportunity for students to identify common conventions in science and investigate variation across fields

The Best American Science and Nature Writing 2020

2020-11-03

the bulletin of the atomic scientists is the premier public resource on scientific and technological developments that impact global security founded by manhattan project scientists the bulletin s iconic doomsday clock stimulates solutions for a safer world

The Whats of a Scientific Life

2019-10-10

numerical simulations of global warming mars observation data and aircraft design are but a few of the topics where the use of human visual perception for data understanding are considered essential ten years agoa handful of pioneers professed the value of visualization to skeptical audiences today with supercomputers and sensors producing ever increasing amounts of data scientific visualization is accepted throughout much of science and engineering as the fundamental tool for data analysis written by a world wide panel of visualization experts scientific visualization advances and challenges presents astute coverage of prevailing trends issues and practice of scientific visualization from algorithmic topics such as volume graphics and the modeling and visualization of large data sets to foundations perception and interface technology including virtual reality this book provides the latest advances in the area the book demonstrates new techniques examines diverse application areas and discusses current limitations and upcoming requirements scientific visualization advances and challenges presents readers with a unique opportunity to examine expert thinking and current practice and to obtain a vision of potential future directions it will be essential reading for scientific and engineering practitioners and visualization researchers alike offers extremely topical and timely coverage of a rapidly evolving area includes contributions from an international panel of visualization experts in one accessible volume provides scientific and engineering practitioners as well as visualization researchers with an essential guide to the literature

Introduction to Scientific and Technical Computing

2016-08-19

the bulletin of the atomic scientists is the premier public resource on scientific and technological developments that impact global security founded by manhattan project scientists the bulletin s iconic doomsday clock stimulates solutions for a safer world

Escape from the Ivory Tower

2010-08-13

the bulletin of the atomic scientists is the premier public resource on scientific and technological developments that impact global security founded by manhattan project scientists the bulletin s iconic doomsday clock stimulates solutions for a safer world

Interagency Coordination of Federal Scientific Research and Development

1976

the nobel prizes enjoy enormous prestige throughout the world every year science is propelled into the limelight and in october when the prizes are announced and december when they are awarded at a ceremony in stockholm a chosen few scientists acquire celebrity status and their sciencereceives wide coverage in the news media first awarded in 1901 the nobel prize remains the only science prize widely recognized by the general public what sort of scientists become nobel laureates how are they chosen are there features common to them and to their prize winning research these sorts of questions have long intrigued istvan hargittai and seeking answers he began interviewing nobel prize winning scientists about

their careers some 70 laureates and a similar number of other distinguished scientists have been interviewed most of them during the late 1990s and the result is this remarkable book written for a general readership the road to stockholm illuminates the nature of scientific discovery the nobel prizeselection process the factors common to award winning research and the effects of the nobel prize on science itself here are stories of scientists who overcame adversity eventually to win the prize insights into the importance of the laureate s mentor in earlier life and into the significanceof the location where prize winning research is carried out and a variety of responses to the question what first turned you to science no less fascinating are the well publicised examples of deserving in many eyes scientists who were not awarded the nobel prize and professor hargittai devotesa chapter to them here then is an absorbing account of science scientists and a prize created a hundred years ago to reward those who in the words of alfred nobel s will during the previous year shall have conferred the greatest benefit on mankind

Fundamental Measures and Constants for Science and Technology

1974

religion has been a major influence on the development of science over the past two millennia the truth about science and religion tells the story of their interaction examining fundamental topics such as the origin of the universe evolutionary processes christian beliefs the history of science and what being human really means from both a scientific and a religious perspective the truth about science and religion aims to help explore personal views on science and religion offering questions for discussion at the end of each chapter the book provides the historical and scientific background as well as the philosophical insight needed to think through issues of science and religion and their influence on personal beliefs metaphors comparisons and analogies are used to simplify complex topics such that any reader can engage with the thoughts and questions posed unlike other books in this field the truth about science and religion follows a chronological scheme beginning with the origin of the universe and life itself before discussing matters of the human condition the life of jesus and stories of several great scientists to regain a unified view of science and religion in today s world

The Brilliant Zewail

2019-07-16

a practical interdisciplinary guide to advanced mathematical methods for scientists and engineers mathematical methods in science and engineering second edition provides students and scientists with a detailed mathematical reference for advanced analysis and computational methodologies making complex tools accessible this invaluable resource is designed for both the classroom and the practitioners the modular format allows flexibility of coverage while the text itself is formatted to provide essential information without detailed study highly practical discussion focuses on the how to aspect of each topic presented yet provides enough theory to reinforce central processes and mechanisms recent growing interest in interdisciplinary studies has brought scientists together from physics chemistry biology economy and finance to expand advanced mathematical methods beyond theoretical physics this book is written with this multi disciplinary group in mind emphasizing practical solutions for diverse applications and the development of a new interdisciplinary science revised and expanded for increased utility this new second edition includes over 60 new sections and subsections more useful to a multidisciplinary audience contains new examples new figures new problems and more fluid arguments presents a detailed discussion on the most frequently encountered special functions in science and engineering provides a systematic treatment of special functions in terms of the sturm liouville theory approaches second order differential equations of physics and engineering from the factorization perspective includes extensive discussion of coordinate transformations and tensors complex analysis fractional calculus integral transforms green s functions path integrals and more extensively reworked to provide increased utility to a broader audience this book provides a self contained three semester course for curriculum self study or reference as more scientific disciplines begin to lean more heavily on advanced mathematical analysis this resource will prove to be an invaluable addition to any bookshelf

Writing in the Sciences

2004

this book highlights the existence of a diversity of methods in science in general in groups of sciences natural social or the artificial and in individual sciences this methodological variety is open to a number of consequences such as the differences in the research according to levels of reality micro meso and macro which leads to multi scale modelling and to questioning fundamental parts in the sciences understood as the necessary support for the whole discipline in addition this volume acknowledges the need to assess the efficacy of procedures and methods of scientific activity in engendering high quality results in research made the relevance of contextual factors for methodology of science the existence of a plurality of stratagems when doing research in empirical sciences natural social and of the artificial and the need for an ethical component while developing scientific methods because values should have a role in scientific research the book is of interest to a broad audience of philosophers academics in various fields graduate students and research centers interested in methodology of science

Bulletin of the Atomic Scientists

1970-02

learning how to write clearly and concisely is an integral part of furthering your research career however doing so is not always easy in this second edition fully updated and revised dr silyn roberts explains in plain english the steps to writing abstracts theses journal papers funding bids literature reviews and more the book also examines preparing seminar and conference presentations written in a practical and easy to follow style specifically for postgraduate students in engineering and sciences this book is essential in learning how to create powerful documents writing for science and engineering will prove invaluable in all areas of research and writing due its clear concise style the practical advice contained within the pages alongside numerous examples to aid learning will make the preparation of documentation much easier for all students written in modular format so you only need to access the relevant chapter covers a wide range of document and presentation types includes easy to understand rules to improve writing

Scientific Visualization

1994

this unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics with this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject gaither s dictionary of scientific quotations second edition provides the finest reference source of science quotations for all audiences the new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

Bulletin of the Atomic Scientists

1973-10

Annual Report of the Council for Scientific and Industrial Research

1940

The Future of Science

1986

Bulletin of the Atomic Scientists

1975-03

The Road to Stockholm

2002

Charter of Ethics of Science and Technology in the Arab Region

2019-12-04

The Truth about Science and Religion

2017-02-23

Mathematical Methods in Science and Engineering

2018-03-27

Methodological Prospects for Scientific Research

2020-10-30

Writing for Science and Engineering

2012-12-17

Gaither's Dictionary of Scientific Quotations

2016-08-23

Journal of the Council for Scientific and Industrial Research

1931

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