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Philosophy of Science and Its Discontents, Second Edition Engaging Science The method of science and its application to metaphysics. The rules of philosophising. Psychological principles. The limitations of knowledge Modern Science and Its Philosophy On Science A History of Science and Its Relations with Philosophy & Religion History of Science and Philosophy of Science: A Historical Perspective of the Evolution of Ideas in Science In Defense of Science Popular Science Science The New World of Science The Rise of Science The Hand of Science Science as Salvation Discipline and Experience It's Not Rocket Science The Idea of a Social Science and Its Relation to Philosophy Science--Its Nature, World Progress, Controversy, Crises and Criticisms Science In Defence of Science The Whats of a Scientific Life The Sciences' Media Connection –Public Communication and its Repercussions Does Science Need a Global Language? The New World of Science Science The Making of a New Science Science, Public Policy and the Scientist Administrator Computational Science and Its Applications - ICCSA 2016 Science, Pseudo-Science and Society Vision, Science and Literature, 1870-1920 Nature Engaged Latin American Perspectives on Science and Religion Coping With Science Science Communication in South Africa The Cambridge History of Science: Volume 8, Modern Science in National, Transnational, and Global Context

2010-01 the most important and exciting recent development in the philosophy of science is its merging with the sociology of scientific knowledge here is the first text book to make this development available

Philosophy of Science and Its Discontents, Second Edition 1992-12-25 summarizing this century's major debates over realism and the rationality of scientific knowledge joseph roose believes that these disputes oversimplify the political and cultural significance of the sciences he provides an alternative understanding of science that focuses on practices rather than knowledge roose first outlines the shared assumptions by ostensibly opposed interpretive stances toward science scientific realism social constructivism empiricism and postempiricist historical rationalism he then advances cultural studies as an alternative approach one that understands the sciences as ongoing patterns of situated activity whose material setting is part of practice cultural studies of science the author suggests take seriously their own participation in and engagement with the culture of science rejecting the purported detachment of earlier philosophical or sociological standpoints rather such studies offer specific critical discussions of how and why science matters and to whom and how opportunities for meaningful understanding and action are transformed by scientific practices

Engaging Science 2018-10-18

The method of science and its application to metaphysics. The rules of philosophising. Psychological principles. The limitations of knowledge 1874 on science concepts cultures and limits explores science and its relationship with religion philosophy ethics mathematics and with socio economic changes the book gives an overview of the metaphysical contexts in which science emerged and the particular forms science has taken in history it examines the preoccupation of ancient cultures with the validity of interpretations of natural phenomena the role of the study of materials in the substantiation of the conceptual world and the establishment of modern science on both experimentation and mathematics this theoretical discussion is illustrated by a host of examples from physics to the life sciences which highlight how current concepts developed over the centuries or even millennia the volume underscores some of the weaknesses inherent in a scientific approach and how in the modern context of a wealth driven technological orientation these have been conducive to a gradual distortion of science into its exact opposite a dogmatic faith it further discusses the nature of scientific education in the world and how conditions can be created to ensure pioneering creativity and to preserve scientific rigor the book will be of great interest to scholars teachers and researchers of science the metaphysics and philosophy of science mathematics science and technology studies epistemology ethics history and sociology it will also be useful for general readers who are interested in the history of scientific discoveries and ideas as well as in the issues surrounding science today in particular its relations with many urgent problems

2018 history of science and philosophy of science a primarily interdisciplinary study deals with the historical and philosophical perspectives of science and explores the mutuality of the relations between the two disciplines to present the study in a reader friendly format it has been divided into two parts with the first volume part 6 dedicated to the history of science and the second volume part 7 to the philosophy of science the first volume history of science and philosophy of science a historical perspective of the evolution of ideas in science seeks to present a history of science where science is believed to proceed along with the operation of a number of mechanisms that are instrumental to its growth thus making science a part of a creative culture this part works out the relation not between history and the history of science but between science and the history of science though the volume focuses mainly on physics and mathematics it also includes essays on life sciences and consciousness studies the order of essays is guided not by chronology but by a philosophical interpretation of the development of major reforms and revisions in the field of science both in india and abroad some authors have paid full attention to indian science and its logic while some others have preferred to deal with western science presented in a fairly non technical language and readily accessible even to non specialists these volumes will be of interest to researchers and well informed general readers

Modern Science and Its Philosophy 1959 in an era when many in the science community feel that science is under attack in defense of science explains why ordinary citizens need to have an understanding of science its methods and its groundbreaking discoveries the authors debunk several misconceptions of science and scientists and advocate that science is an integral part of society and everyday life this book begins with an introduction to science and its basic concepts including a brief and entertaining history of science and scientific

discoveries before taking on current views of science in society it surveys the many sources of our ideas of science including pop culture classics of literature news media and political discourse much of the information from these sources tends to mislead and the only way to guard against such misinformation is to become scientifically literate and promote scientific literacy in society the book therefore delves into the reasons that so many people do not understand basic scientific principles and do not keep up with scientific breakthroughs and finishes by examining the current state of science education it includes many resources for further reading and is presented in an engaging and entertaining way

On Science 2020-12-21 this comprehensive guide provides an overview of the history of science from archeology to oceanography complete with double page spreads full color photos biographical entries and more

A History of Science and Its Relations with Philosophy & Religion 1948 this book has been considered by academicians and scholars of great significance and value to literature this forms a part of the knowledge base for future generations we have represented this book in the same form as it was first published hence any marks seen are left intentionally to preserve its true nature

History of Science and Philosophy of Science: A Historical Perspective of the Evolution of Ideas in Science 2018-08-31 how did science rise up to so dramatically change our world and where will it take us in the future this book gives a unique and broad overview a brief history reveals the major phases and turning points in the rise of science from the earliest civilizations to the present how was science discovered why did it disappear a few times when did it become modern a critical assessment examines how science actually happens the triumphs the struggles the mistakes and the luck science today is endlessly fascinating and this book explores the current exponential growth curiosity driven vs goal oriented research big and small science the support of science the relation of science to society philosophy and religion and the benefits and dangers of science finally a glimpse into the future will the current pace of science continue will we ever go backwards again what remains to be discovered can science ever be complete what can we imagine for the distant future this book will be of wide interest to the general reader as well as to students and working scientists this book provides a fresh unique and insightful coverage of the processes of science its impact on society and our understanding of the world based on the author's experience gained from a lifetime in science ron ekers frs csiro fellow csiro astronomy space science former president of the international astronomical union peter shaver's comprehensive and lively survey deserves a wide readership scientific discoveries are part of our global culture and heritage and they underpin our lives it's fascinating to learn how they were made and how they fit into the grand scheme this book isn't just for scientists it's written for all of us martin rees frs astronomer royal former president of the royal society and former master of trinity college cambridge this book offers a wonderfully concise and accessible insight into science its history breadth and future prospects peter shaver gives a feeling for what it actually means to be a practicing scientist stephen simpson frs academic director charles perkins centre school of life and environmental sciences university of sydney

In Defense of Science 2001 cronin a master of the subject examines the complex relationship between authorship individual or collective and the reward system of science in the face of the burgeoning growth of scholarly communication he answers the myriad questions raised from how responsibility and credit are allocated in collaborative endeavors to what the intellectual property impact could be in online and open access publishing

Popular Science 1950 what is the role of scientists in society what should we think when they talk about more than just science mary midgley discusses the high spiritual ambitions which tend to gather around the notion of science

Science 2019-08 although the scientific revolution has long been regarded as the beginning of modern science there has been little consensus about its true character while the application of mathematics to the study of the natural world has always been recognized as an important factor the role of experiment has been less clearly understood peter dear investigates the nature of the change that occurred during this period focusing particular attention on evolving notions of experience and how these developed into the experimental work that is at the center of modern science he examines seventeenth century mathematical sciences astronomy optics and mechanics not as abstract ideas but as vital enterprises that involved practices related to both experience and experiment dear illuminates how mathematicians and natural philosophers of the period mersenne descartes pascal barrow newton boyle and the jesuits used experience in their argumentation and how and why these approaches changed over the course of a century drawing on mathematical texts and works of natural philosophy from all

over europe he describes a process of change that was gradual halting sometimes contradictory far from the sharp break with intellectual tradition implied by the term revolution

The New World of Science 2018-07-05 the top ten bestseller black holes dna the large hadron collider ever had that sneaking feeling that you are missing out on some truly spectacular science you do well fear not for help is at hand ben miller was working on his physics phd at cambridge when he accidentally became a comedian but first love runs deep and he has returned to his roots to share with you all his favourite bits of science this is the stuff you really need to know not only because it matters but because it will quite simply amaze and delight you let me show you another perhaps less familiar side of science her beauty her seductiveness and her passion and let s do it quickly while maths isn t looking ben miller this book makes climate change actually seem interesting not just important it s obviously important but interesting as a result i bought lots of other books about climate change something i now regret david mitchell ben miller is like you a mutant ape living through an ice age on a ball of molten iron orbiting a supermassive black hole he is also an actor comedian and approximately one half of armstrong miller he s presented a bbc horizon documentary on temperature and a radio 4 series about the history of particle physics and has written a science column for the times he is slowly coming to terms with the idea that he may never be an astronaut

The Rise of Science 2005 the author holds thst the relation between the social studies and philosophy is commonly misunderstood because of certain fashionable misconceptions about the nature of philosophy

The Hand of Science 2013-02-01 in science patricia fara rewrites science s past to provide new ways of understanding and questioning our modern technological society aiming not just to provide information but to make people think this unique book explores how science has become so powerful by describing the financial interests and imperial ambitions behind its success sweeping through the centuries from ancient babylon right up to the latest hi tech experiments in genetics and particle physics fara s book also ranges internationally challenging notions of european superiority by emphasising the importance of scientific projects based around the world including revealing discussions of china and the islamic empire alongside the more familiar stories about copernicus s sun centered astronomy newton s gravity and darwin s theory of evolution we see for instance how muslim leaders encouraged science by building massive libraries hospitals and astronomical observatories and we rediscover the significance of medieval europe long overlooked where surprisingly religious institutions ensured science s survival as the learning preserved in monasteries was subsequently developed in new and unique institutions universities instead of focussing on esoteric experiments and abstract theories she explains how science belongs to the practical world of war politics and business and rather than glorifying scientists as idealized heroes she tells true stories about real people men and some women who needed to earn their living who made mistakes and who trampled down their rivals finally this provocative volume challenges scientific supremacy itself arguing that science is successful not because it is always indubitably right but because people have said that it is right science dominates modern life but perhaps the globe will be better off by limiting science s powers and undoing some of its effects dismantling popular myths taking a truly global view and dispensing with false idols fara s highly readable survey of science s histories is a breath of fresh air she unerringly pinpoints the defining moods of each age treating the past with respect and the present with discernment this wonderfully literate book tells a story that is far far more interesting than the tidy fictions of hindsight philip ball consultant editor of nature it s been a very long time since any reputable historian of science had the desire the knowledge or the nerve to undertake a book like this an attempt to survey the development of science from antiquity to the present notably including non european materials patricia fara has succeeded science is an elegant and compact creative synthesis of the piecemeal researches of generations of academic historians it deserves the widest possible readership steven shapin professor of the history of science harvard and author of the scientific revolution patricia fara lectures in the history and philosophy of science at the university of cambridge and is the senior tutor of clare college she is the author of numerous books including fatal attraction magnetic mysteries of the enlightenment and newton the making of genius her writing has appeared in history today new scientist nature the times and new statesman and she writes a regular column on scientific portraits for endeavour books by the same author fatal attraction magnetic mysteries of the enlightenment by patricia fara published 2005 publisher icon books price l9 99 pandora s breeches women science and power in the enlightenment by patricia fara published 2004 publisher pimlico price l12 99 sex botany and empire the stories of carl linnaeus and joseph banks by patricia fara

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Science as Salvation 1995-11-25 science holds a central role in the modern world yet its complex interrelationships with nature technology and politics are often misunderstood or seen from a false perspective in a series of essays that make extensive use of original work by sociologists historians and philosophers of science j w grove explores the roles and relationships of science in modern technological society modern science can be viewed from four related perspectives it is an expression of human curiosity a passion to understand the natural world what it is made of how it is put together and how it works it is a body of practice a set of ways of finding out that distinguish it from other realms of inquiry it is a profession a body of men and women owing allegiance to the pursuit of knowledge and for those people a career and it is a prescriptive enterprise in that the increase of scientific understanding makes it possible to put nature to use in new kinds of technology each of these aspects of science is today the focus of critical scrutiny and often outright hostility with many examples grove exposes the threats to science today its identification with technology its subordination to the state the false claims made in its name and the popular intellectual forces that seek to denigrate it as a source of human understanding and progress *Discipline and Experience* 2012-07-12 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

It's Not Rocket Science 1990 the yearbook addresses the overriding question what are the effects of the opening up of science to the media theoretical considerations and a host of empirical studies covering different configurations provide an in depth analysis of the sciences media connection and its repercussions on science itself they help to form a sound judgement on this recent development

The Idea of a Social Science and Its Relation to Philosophy 1997-10 in early 2012 the global scientific community erupted with news that the elusive higgs boson had likely been found providing potent validation for the standard model of how the universe works scientists from more than one hundred countries contributed to this discovery proving beyond any doubt that a new era in science had arrived an era of multinationalism and cooperative reach globalization the internet and digital technology all play a role in making this new era possible but something more fundamental is also at work in all scientific endeavors lies the ancient drive for sharing ideas and knowledge and now this can be accomplished in a single tongue english but is this a good thing in does science need a global language scott l montgomery seeks to answer this question by investigating the phenomenon of global english in science how and why it came about the forms in which it appears what advantages and disadvantages it brings and what its future might be he also examines the consequences of a global tongue considering especially emerging and developing nations where research is still at a relatively early stage and english is not yet firmly established throughout the book he includes important insights from a broad range of perspectives in linguistics history education geopolitics and more each chapter includes striking and revealing anecdotes from the front line experiences of today's scientists some of whom have struggled with the reality of global scientific english he explores topics such as student mobility publication trends world englishes language endangerment and second language learning among many others what he uncovers will challenge readers to rethink their assumptions about the direction of contemporary science as well as its future

Science--Its Nature, World Progress, Controversy, Crises and Criticisms 2009 this volume presents examples of the important contributions of several of the natural sciences and of their related technologies the primary purpose of the contributors has been to offer to the lay reader an untechnical account of the nature of certain methods and their practical relations to military problems the editor and every

cartography to techniques for tracing radioactive fallout on a global scale the book aims to show readers with episodes drawn from the span of their modern history the sciences in action throughout human society

The Making of a New Science 2021 latin america plays an increasingly important role in the development of modern christianity yet it has been underrepresented in current scholarship on religion and science in this first book on the subject contributors explore the different ways that religion and science relate to each other

□□□□□□ 2020-01-20 gernot böhme a distinguished and original contributor to critical theory s philosophy of science project sets out the main theses of this program in an important volume for science studies scholars stressing that science is a necessary aspect of advanced societies böhme explores the most fundamental questions about its social political and cultural roles in modern society in light of the mixed blessings of technical society böhme questions whether we can continue to regard the institution of science as the top of a hierarchy of knowledge or as a neutral means of progress let alone as a benign force for good science and its future are too important to be left to the scientists society böhme insists must take control of its scientific future

□□□□□□ 1972 why do we need to communicate science is science with its highly specialised language and its arcane methods too distant to be understood by the public is it really possible for citizens to participate meaningfully in scientific research projects and debate should scientists be mandated to engage with the public to facilitate better understanding of science how can they best communicate their special knowledge to be intelligible these and a plethora of related questions are being raised by researchers and politicians alike as they have become convinced that science and society need to draw nearer to one another once the persuasion took hold that science should open up to the public and these questions were raised it became clear that coming up with satisfactory answers would be a complex challenge the inaccessibility of scientific language and methods due to ever increasing specialisation is at the base of its very success thus translating specialised knowledge to become understandable interesting and relevant to various publics creates particular perils this is exacerbated by the ongoing disruption of the public discourse through the digitisation of communication platforms for example the availability of medical knowledge on the internet and the immense opportunities to inform oneself about health risks via social media are undermined by the manipulable nature of this technology that does not allow its users to distinguish between credible content and misinformation in countries around the world scientists policy makers and the public have high hopes for science communication that it may elevate its populations educationally that it may raise the level of sound decision making for people in their daily lives and that it may contribute to innovation and economic well being this collection of current reflections gives an insight into the issues that have to be addressed by research to reach these noble goals for south africa and by south africans in particular this work was published by saint philip street press pursuant to a creative commons license permitting commercial use all rights not granted by the work s license are retained by the author or authors

Science, Public Policy and the Scientist Administrator 2016-06-30 this volume in the highly respected cambridge history of science series is devoted to exploring the history of modern science using national transnational and global frames of reference organized by topic and culture its essays by distinguished scholars offer the most comprehensive and up to date nondisciplinary history of modern science currently available essays are grouped together in separate sections that represent larger regions europe africa the middle east south asia east and southeast asia the united states canada australia new zealand oceania and latin america each of these regional groupings ends with a separate essay reflecting on the analysis in the preceding chapters intended to provide a balanced and inclusive treatment of the modern world contributors analyze the history of science not only in local national and regional contexts but also with respect to the circulation of knowledge tools methods people and artifacts across national borders

Computational Science and Its Applications - ICCSA 2016 2006-01-01

Science, Pseudo-Science and Society 2015-10-06

Vision, Science and Literature, 1870-1920 2012-12-10

Nature Engaged 2015-10-06

Latin American Perspectives on Science and Religion 2019-06-07

Coping With Science 2020-10-09

Science Communication in South Africa 2020-04-09

The Cambridge History of Science: Volume 8, Modern Science in National, Transnational, and Global Context 2015-01

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