

An Introduction To Science And Technology Studies

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An Introduction to Science - ThoughtCo

"Sergio Sismondo's book represents a very useful and clear introduction to Science and Technology Studies (STS), a relatively new academic field that has at its core the relationship between scientific knowledge, technological systems, and society . . . The rich set of references can help readers who want to learn more."

An Introduction to Science and Technology Studies, 2nd ...

In the present world, if we think of any sort of development, then the presence of science and technology cannot be ignored. What is Science? Science fundamentally is the systematic study of the structure and behavior of the natural and physical world through observations and experiments. Study of science evolved with the civilization of human beings.

Science & Technology - Introduction - Tutorialspoint

The prehistory of science and technology studies -- The Kuhnian revolution -- Questioning functionalism in the sociology of science -- Stratification and discrimination -- The strong programme and the sociology of knowledge -- The social construction of scientific and technical realities -- Feminist epistemologies of science -- Actor-network theory -- Two questions concerning technology ...

Sergio Sismondo, An Introduction to Science and Technology ...

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An Introduction to Complex Systems Science and Its ...

Introduction. To succeed in this science course and, more specifically, to answer some of the questions on the first exam, you should be familiar with a few of the concepts regarding the definition of science, scientific thinking, and the methods of science. Most textbooks do an inadequate job of this task, so this essay provides that information. This information in its present form is not in your textbook, so please read it carefully here, and pay close attention to the words in boldface ...

An Introduction to Science

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Science and Social Science: An Introduction: Amazon.co.uk ...

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How to write an introduction to an essay - BBC Bitesize

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An Introduction to Science Communications

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An Introduction to Science and Technology Studies, Second Edition reflects the latest advances in the field while continuing to provide students with a road map to the complex interdisciplinary terrain of science and technology studies. Distinctive in its attention to both the underlying philosophical and sociological aspects of science and technology Explores core topics such as realism and ...

An Introduction to Science and Technology Studies, 2nd ...

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An Introduction to Occupational Science, a Foundation for ...

An introduction to new topics, including the element of risk management in corrosion engineering and new advanced alloys for controlling corrosion Expanded discussions on electrochemical polarization, predicting corrosion using thermodynamics, steel reinforcements in concrete, and applications of corrosion control technologies in automotive, nuclear, and other industries

An Introduction to Science and Technology Studies, Second Edition reflects the latest advances in the field while continuing to provide students with a road map to the complex interdisciplinary terrain of science and technology studies. Distinctive in its attention to both the underlying philosophical and sociological aspects of science and technology Explores core topics such as realism and social construction, discourse and rhetoric, objectivity, and the public understanding of science Includes numerous empirical studies and illustrative examples to elucidate the topics discussed Now includes new material on political economies of scientific and technological knowledge, and democratizing technical decisions Other features of the new edition include improved readability, updated references, chapter reorganization, and more material on medicine and technology

The purpose of this book is to give a coherent account of the different perspectives on science and technology that are normally studied under various disciplinary heads such as philosophy of science, sociology of science and science policy. It is intended for students embarking on courses in these subjects and assumes no special knowledge of any science. It is written in a direct and simple style, and technical language is introduced very sparingly. As various perspectives are sketched out in this book, the reader moves towards a consistent conception of contemporary science as a rapidly changing social institution that has already grown out of its traditional forms and plays a central role in society at large. It will appeal to students in a wide range of scientific disciplines and complement well Professor Ziman's earlier books.

How much faith should we place in what scientists tell us? Is it possible for scientific knowledge to be fully "objective?" What, really, can be defined as science? In the second edition of this Very Short Introduction, Samir Okasha explores the main themes and theories of contemporary philosophy of science, and investigates fascinating, challenging questions such as these. Starting at the very beginning, with a concise overview of the history of science, Okasha examines the nature of fundamental practices such as reasoning, causation, and explanation. Looking at scientific revolutions and the issue of scientific change, he asks whether there is a discernible pattern to the way scientific ideas change over time, and discusses realist versus anti-realist attitudes towards science. He finishes by considering science today, and the social and ethical philosophical questions surrounding modern science. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Publisher description

This book explores central philosophical concepts, issues, and debates in the philosophy of science, both historical and contemporary.

Exceptionally useful guide to pragmatic scientific method: design of experiments and apparatus, analysis of data, sampling and measurement, numerical computation, much more. Broad applications. References. Illustrations.

A philosopher of science examines the biggest ethical and moral issues in science today, and explains why they matter for all of us -- scientist and layman alike Science has produced explanations for everything from the mechanisms of insect navigation to the formation of black holes and the workings of black markets. But how much can we trust science, and can we actually know the world through it? How does science work and how does it fail? And how can the work of scientists help -- or hurt -- everyday people? These are not questions that science can answer on its own. This is where philosophy of science comes in. Studying science without philosophy is, to quote Einstein, to be "like somebody who has seen thousands of trees but has never seen a forest." Cambridge philosopher Tim Lewens shows us the forest. He walks us through the theories of seminal philosophers of science Karl Popper and Thomas Kuhn and considers what science is, how far it can and should reach, and how we can determine the nature of its truths and myths. These philosophical issues have consequences that stretch far beyond the laboratory. For instance: What role should scientists have in policy discussions on environmental issues such as fracking? What are the biases at play in the search for a biological function of the female orgasm? If brain scans can be used to demonstrate that a decision was made several seconds before a person actually makes a conscious choice, what does that tell us about the possibility of free will? By examining science through this philosophical lens, Lewens reveals what physics can teach us about reality, what biology teaches us about human nature, and what cognitive science teaches us about human freedom. A masterful analysis of the biggest scientific and ethical issues of our age, The Meaning of Science forces us to confront the practical, personal, and political purposes of science -- and why it matters to all of us.

'The book provides a concise, informative, comprehensive, and current overview of key issues in the field of science communication, the background of science communication, its theoretical bases, and its links to science communication practice. Especially the link between theory / research and practice is very well developed in the book and in the individual chapters. I think that is valuable for both readers new to the field of science communication, but also for those who identify with only one of these sides ... it is indeed a comprehensive and concise overview, convincing in its aim to link theory, research, and practice and I will definitely use it for my lectures on science communication.'JCOM - Journal of Science CommunicationA concise, coherent and easily readable textbook about the field of science communication, connecting the practice of science communicators with theory. In the book, recent trends and shifts in the field resonate, such as the transition from telling about science to interacting with the public and the importance of science communication in health and environmental communication. The chapters have been written by experts in their disciplines, coming from philosophy of science and communication studies to health communication and science journalism. Cases from around the world illustrate science communication in practice. The book provides a broad, up-to-date and coherent introduction to science communication for both, students of science communication and related fields, as well as professionals.Related Link(s)

Between Literature and Science follows through to its emerging 21st-century future the central insight of 20th-century literary and cultural theory: that language and culture, along with their subsystems and artifacts, are self-referential systems. The book explores the workings of self-reference (and the related performativity) in linguistic utterances and assorted texts, through examples of the more open social-discursive systems of post-structuralism and cultural studies, and into the sciences, where complex systems organized by recursive self-reference are now being embraced as an emergent paradigm. This paradigmatic convergence between the humanities and sciences is autopoietics (adapting biologist Hubert Maturana ' s term for " self-making " systems), and it signals a long-term epistemological shift across the nature/culture divide so definitive for modernity. If cultural theory has taught us that language, because of its self-referential nature, cannot bear simple witness to the world, the new paradigmatic status of self-referential systems in the natural sciences points toward a revived kinship of language and culture with the world: language bears " witness " to the world. The main movement of the book is through a series of model explications and analyses, operational definitions of concepts and terms, more extended case studies, vignettes and thought experiments designed to give the reader a feel for the concepts and how to use them, while working to expand the autopoietic internee by putting cultural self-reference in dialogue with the self-organizing systems of the sciences. Along the way the reader is introduced to self-reference in epistemology (Foucault), sociology (Luhmann), biology (Maturana/Varela/Kauffman), and physics and cosmology (Smolin). Livingston works through the fundamentals of cultural, literary, and science studies and makes them comprehensible to a non-specialist audience.

In this short masterpiece, eminent scientist and theologian John Polkinghorne offers an accessible, yet authoritative, introduction to the stimulating field of science and theology. After surveying their volatile historical relationship, he leads the reader through the whole array of questions at the nexus of the scientific and religious quests. A lucid and lively writer, Polkinghorne provides a marvelously clear overview of the major elements of current science (including quantum theory, chaos theory, time, and cosmology). He then offers a concise outline of the character of religion and shows the joint potential of science of religion to illumine some of the thorniest issues in theology today: creation, the nature of knowledge, human and divine identity and agency. Polkinghorne aptly demonstrates that a sturdy faith has nothing to fear and much to gain from an intellectually honest appraisal of the new horizons of contemporary science.

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