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[The Meaning of Science](#) Mar 18 2022 What is science? Is it uniquely equipped to deliver universal truths? Or is it one of many disciplines - art, literature, religion - that offer different forms of understanding? In *The Meaning of Science*, Tim Lewens offers a provocative introduction to the philosophy of science, showing us for example what physics teaches us about reality, what biology teaches us about human nature, and what

cognitive science teaches us about human freedom. Drawing on the insights of towering figures like Karl Popper and Thomas Kuhn, Lewens shows how key questions in science matter, often in personal, practical and political ways.

Introduction to Information Science Aug 23 2022 This landmark textbook takes a whole subject approach to Information Science as a discipline. Introduced by leading international scholars and offering a global perspective on the discipline, this is designed to be the standard text for students worldwide. The authors' expert narrative guides you through each of the essential building blocks of information science offering a concise introduction and expertly chosen further reading and resources. Critical topics covered include: foundations: - concepts, theories and historical perspectives - organising and retrieving information - information behaviour, domain analysis and digital literacies - technologies, digital libraries and information management - information research methods and informetrics - changing contexts: information society, publishing, e-science and digital humanities - the future of the discipline. Readership: Students of information science, information and knowledge management, librarianship, archives and records management worldwide. Students of other information-related disciplines such as museum studies, publishing, and information systems and practitioners in all of these disciplines.

[Introduction to Nonlinear Science](#) Jul 22 2022 The aim of this book is to develop a unified approach to nonlinear science, which does justice to its multiple facets and to the diversity and richness of the concepts and tools developed in this field over the years. Nonlinear science emerged in its present form following a series of closely related and decisive

analytic, numerical and experimental developments that took place over the past three decades. It appeals to an extremely large variety of subject areas, but, at the same time, introduces into science a new way of thinking based on a subtle interplay between qualitative and quantitative techniques, topological and metric considerations and deterministic and statistical views. Special effort has been made throughout the book to illustrate both the development of the subject and the mathematical techniques, by reference to simple models. Each chapter concludes with a set of problems. This book will be of great value to graduate students in physics, applied mathematics, chemistry, engineering and biology taking courses in nonlinear science and its applications.

Recipes for Science Mar 30 2023 There is widespread recognition at universities that a proper understanding of science is needed for all undergraduates. Good jobs are increasingly found in fields related to Science, Technology, Engineering, and Medicine (STEM), and science now enters almost all aspects of our daily lives. For these reasons, scientific literacy and an understanding of scientific methodology are now a foundational part of any undergraduate education (and not just the education of science majors). Recipes for Science provides an accessible introduction to the main concepts and methods of scientific reasoning. With the help of an array of contemporary and historical examples, definitions, visual aids, and exercises for active learning, the textbook helps to increase students' scientific literacy. The first part of the book covers the definitive features of science: naturalism, experimentation, modeling, and the merits and shortcomings of experimenting and modeling. The second part covers the main forms of inference in science: deductive, inductive, abductive, probabilistic, statistical, and causal. The book concludes with a discussion of explanation, theorizing and theory-change, and the relationship between science and society. The textbook is designed to be adaptable to a wide variety of different kinds of courses. In any of these different uses, the book helps students better navigate our scientific, 21st-century world, and it lays the foundation for more advanced undergraduate coursework in a wide variety of liberal arts and science courses. Key Features Helps students develop scientific

literacy; an essential aspect of any undergraduate education in the 21st century, including a broad understanding of scientific reasoning, methods, and concepts Is written for all beginning college students: preparing science majors for more focused work in a particular science; introducing the humanities' investigations of science; and helping non-science majors become more sophisticated consumers of scientific information Provides an abundance of both contemporary and historical examples Covers reasoning strategies and norms applicable in all fields of physical, life, and social sciences, as well as strategies and norms distinctive of specific sciences Includes visual aids to clarify and illustrate ideas Provides text boxes with related topics and helpful definitions of key terms, and includes a final Glossary with all key terms Includes Exercises for Active Learning at the end of each chapter, which will ensure full student engagement and mastery of the information include earlier in the chapter Provides annotated "For Further Reading" sections at the end of each chapter, guiding students to the best primary and secondary sources available Offers a continually developing Companion Website, with author-developed and crowdsourced materials, including: syllabi for a variety of courses using this textbook bibliography of additional resources, including online materials sharable PowerPoint presentations and lecture notes ideas for additional exercises and extended projects

Introduction to Carbon Science Jul 10 2021 Introduction to Carbon Science deals with various aspects of carbon science, from polymer science and prosthetics to crystallography, carbonization, spectroscopy, and surface science. Topics covered include the mechanisms of formation of isotropic and anisotropic carbons, physical properties of pitch relevant to the fabrication of carbon materials; kinetics and catalysis of carbon gasification; and porosity in carbons and graphites. Carbon fibers, cokes and composites, and coal to coke transformations are also discussed. This book is comprised of nine chapters and begins with an overview of the basic structural features of carbon materials, along with definitions of the various carbon forms encountered in carbon science. The principal techniques for studying the structure of solid carbons are also

considered. The reader is then introduced to the mechanisms underlying the formation of isotropic and anisotropic carbons; the physicochemical changes that take place when pitch is pyrolyzed to carbon; and kinetics and catalysis of carbon gasification reactions. The following chapters explore various types of porosity in carbons and graphites; manufacture, properties, structure, and applications of carbon fibers; and mechanical properties of cokes and composites. This text concludes by describing the conversion of coal to coke. This monograph will be of interest to carbon scientists, technologists, and engineers, as well as those entering the field of carbon science for the first time.

Basher Science: Sticker Book Feb 23 2020 From Basher, the illustrator who made science too-cool-for-school, comes the Basher Science: Sticker Book, a fun and funky poster and sticker book to introduce the youngest readers to the wonderful world of Basher Science. Featuring some of the friendly and iconic superstars of the best-selling titles in the series—Rocks and Minerals, Astronomy, Biology, Chemistry, Planet Earth, Oceans, and Physics—as well as four pages of reusable stickers and gentle, child-friendly text, this book is an appealing, interactive treat for the youngest science hounds.

Introduction to Corrosion Science Jan 16 2022 This textbook is intended for a one-semester course in corrosion science at the graduate or advanced undergraduate level. The approach is that of a physical chemist or materials scientist, and the text is geared toward students of chemistry, materials science, and engineering. This textbook should also be useful to practicing corrosion engineers or materials engineers who wish to enhance their understanding of the fundamental principles of corrosion science. It is assumed that the student or reader does not have a background in electrochemistry. However, the student or reader should have taken at least an undergraduate course in materials science or physical chemistry. More material is presented in the textbook than can be covered in a one-semester course, so the book is intended for both the classroom and as a source book for further use. This book grew out of classroom lectures which the author presented between 1982 and the present while a professorial lecturer at George Washington University,

Washington, DC, where he organized and taught a graduate course on “Environmental Effects on Materials.” Additional material has been provided by over 30 years of experience in corrosion research, largely at the Naval Research Laboratory, Washington, DC and also at the Bethlehem Steel Company, Bethlehem, PA and as a Robert A. Welch Postdoctoral Fellow at the University of Texas. The text emphasizes basic principles of corrosion science which underpin extensions to practice. Cognitive Science Jun 20 2022 This popular and engaging text integrates the interdisciplinary streams of cognitive science to present a unified introduction to the field.

Science 114 Mar 25 2020

An Introduction to Scientific Research Oct 25 2022 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. *Introduction to Science* Oct 13 2021

Introduction to Exercise Science Dec 23 2019 The fifth edition of *Introduction to Exercise Science* introduces students to every core area of study in the discipline. It comprises concise chapters which introduce the history, key lines of inquiry relating to both health and performance, technology, certifications, professional associations, and career opportunities associated with each area. No other book offers such a wide-ranging, evidence-based introduction to exercise science. Written by leading and experienced experts, chapters include: reading and interpreting literature measurement in exercise science anatomy in exercise science exercise physiology exercise epidemiology athletic training exercise and sport nutrition biomechanics motor control exercise and sport psychology Packed with pedagogical features—from journal abstract examples to study questions and further reading suggestions—and accompanied by a website including practical lab exercises, *Introduction to Exercise Science* is a complete resource for a hands-on introduction to the core tenets of exercise science. It is an engaging and invaluable textbook for students beginning undergraduate degrees in Kinesiology, Sport & Exercise Science, Sports Coaching,

Strength & Conditioning, Athletic Training, Sports Therapy, Sports Medicine, and Health & Fitness.

An Introduction to Physical Science Nov 25 2022 Consistent with previous editions of An Introduction to Physical Science, the goal of the new Thirteenth edition is to stimulate students' interest in and gain knowledge of the physical sciences. Presenting content in such a way that students develop the critical reasoning and problem-solving skills that are needed in an ever-changing technological world, the authors emphasize fundamental concepts as they progress through the five divisions of physical sciences: physics, chemistry, astronomy, meteorology, and geology. Ideal for a non-science majors course, topics are treated both descriptively and quantitatively, providing instructors the flexibility to emphasize an approach that works best for their students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Science Literacy Apr 06 2021 Science is a way of knowing about the world. At once a process, a product, and an institution, science enables people to both engage in the construction of new knowledge as well as use information to achieve desired ends. Access to science—whether using knowledge or creating it—necessitates some level of familiarity with the enterprise and practice of science: we refer to this as science literacy. Science literacy is desirable not only for individuals, but also for the health and well-being of communities and society. More than just basic knowledge of science facts, contemporary definitions of science literacy have expanded to include understandings of scientific processes and practices, familiarity with how science and scientists work, a capacity to weigh and evaluate the products of science, and an ability to engage in civic decisions about the value of science. Although science literacy has traditionally been seen as the responsibility of individuals, individuals are nested within communities that are nested within societies—and, as a result, individual science literacy is limited or enhanced by the circumstances of that nesting. Science Literacy studies the role of science literacy in public support of science. This report synthesizes the available research literature on science literacy, makes

recommendations on the need to improve the understanding of science and scientific research in the United States, and considers the relationship between scientific literacy and support for and use of science and research.

Teacher's Guide to Introduction to Natural Science May 27 2020
Science Communication: An Introduction May 08 2021 '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 Communication A 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)

A Hands-On Introduction to Data Science Apr 26 2020 An introductory textbook offering a low barrier entry to data science; the hands-on approach will appeal to students from a range of disciplines.

Introduction to the History of Science Nov 13 2021

Science Rules Sep 11 2021 Included is a famous nineteenth-century

debate about scientific reasoning between the hypothetico-deductivist William Whewell and the inductivist John Stuart Mill; and an account of the realism-antirealism dispute about unobservables in science, with a consideration of Perrin's argument for the existence of molecules in the early twentieth century.

Science Studies Nov 01 2020 Thrust into the public eye by the contentious "Science Wars"--played out most recently by physicist Alan Sokal's hoax--the nascent field of science studies takes on the political, historical, and cultural dimensions of technology and the sciences. *Science Studies* is the first comprehensive survey of the field, combining a concise overview of key concepts with an original and integrated framework. In the process of bringing disparate fields together under one tent, David J. Hess realizes the full promise of science studies, long uncomfortably squeezed into traditional disciplines. He provides a clear discussion of the issues and misunderstandings that have arisen in these interdisciplinary conversations. His survey is up-to-date and includes recent developments in philosophy, sociology, anthropology, history, cultural studies, and feminist studies. By moving from the discipline-bound blinders of a sociology, history, philosophy, or anthropology of science to a transdisciplinary field, science studies, Hess argues, will be able to provide crucial conceptual tools for public discussions about the role of science and technology in a democratic society.

Introduction to Space Science Apr 18 2022 This book highlights the technological and managerial fundamentals and frontier questions of space science. Space science is a new interdisciplinary and comprehensive subject that takes spacecraft as the main tools to study the planet Earth, the solar-terrestrial space, the solar system, and even the whole universe, to answer significant questions covering the formation and evolution of the solar system and the universe, the origin and evolution of life and the structure of the material. The book introduces major scientific questions in various branches of space science and provides related technological and managerial knowledge. It also discusses the necessity of international cooperation and elaborates on the strategic planning of space science in China. The book can be

used as a reference book or textbook for scientists, engineers, college students, and the public participating in space science programs. [Science for the Curious Photographer](#) Jul 30 2020 While there are many books that teach the "how-to" of photography, *Science for the Curious Photographer* is a book for those who also want to understand how photography works. Beginning with an introduction to the history and science of photography, Charles S. Johnson, Jr. addresses questions about the principles of photography, such as why a camera needs a lens, how lenses work, and why modern lenses are so complicated. Addressing the complex aspects of digital photography, the book discusses color management, resolution, "noise" in images, and the limits of human perception. The creation and appreciation of art in photography is discussed from the standpoint of modern cognitive science. A crucial read for those seeking the scientific context to photographic practice, this second edition has been comprehensively updated, including discussion of DSLRs, mirror-less cameras, and a new chapter on the limits of human vision and perception.

Introduction to Glass Science and Technology Jun 28 2020 An *Introduction to Glass Science and Technology* presents the fundamental topics in glass science and technology including glass formation, crystallisation and phase separation. A detailed discussion of glass structure models with emphasis on the oxygen balance model is also presented. Additional chapters discuss the most important properties of glasses, including physical, optical, electrical, chemical and mechanical properties, and new to this edition, water in glasses and melts. Glass technology is addressed in chapters dealing with the details of glass raw materials, melting and fining, and commercial glass production methods. This expanded second edition also includes new chapters on the compositions and properties of commercial glasses and thermal analysis of glasses and melts. Exercises are included at the end of the chapters. This introductory text is ideal for undergraduates in materials science, ceramics or inorganic chemistry. It will also be useful to the engineer or scientist seeking basic knowledge of the formation, properties and production of glass.

Introduction to Materials Science and Engineering Feb 14 2022 This unique book is designed to serve as an active learning tool that uses carefully selected information and guided inquiry questions. Guided inquiry helps readers reach true understanding of concepts as they develop greater ownership over the material presented. First, background information or data is presented. Then, concept invention questions lead the students to construct their own understanding of the fundamental concepts represented. Finally, application questions provide the reader with practice in solving problems using the concepts that they have derived from their own valid conclusions. KEY TOPICS: What is Guided Inquiry?; What is Materials Science and Engineering?; Bonding; Atomic Arrangements in Solids; The Structure of Polymers; Microstructure: Phase Diagrams; Diffusion; Microstructure: Kinetics; Mechanical Behavior; Materials in the Environment; Electronic Behavior; Thermal Behavior; Materials Selection and Design.

MasteringEngineering, the most technologically advanced online tutorial and homework system available, can be packaged with this edition.

MasteringEngineering is designed to provide students with customized coaching and individualized feedback to help improve problem-solving skills while providing instructors with rich teaching diagnostics. Note: If you are purchasing the standalone text (ISBN: 0132136422) or electronic version, MasteringEngineering does not come automatically packaged with the text. To purchase MasteringEngineering, please visit:

www.masteringengineering.com or you can purchase a package of the physical text + MasteringEngineering by searching the Pearson Higher Education web site. MasteringEngineering is not a self-paced technology and should only be purchased when required by an instructor. MARKET: For students taking the Materials Science course in the Mechanical & Aerospace Engineering department. This book is also suitable for professionals seeking a guided inquiry approach to materials science.

Introduction to Materials Science Sep 23 2022

Science In Society Oct 01 2020 Without assuming any scientific background, Bucchi provides clear summaries of all the major theoretical positions within the sociology of science, using many fascinating

examples to illustrate them.

Introduction to General Science Dec 03 2020 Excerpt from Introduction to General Science: With Experiments However much we may theorize, and try to impress the youth with the proper conception of man's place in nature, the individual young person will continue to consider himself as the center of the universe. Immediate needs and close surroundings are what interest him. It is not until he has learned about these, and has followed back to their sources and causes some of the phenomena which have seemed simple and matter of fact, that he begins to realize that the distant forces have more effect upon his existence than the near-by, everyday happenings. Perhaps it is well, then, at the beginning of science study, to take his point of view, and lead him to follow each apparently simple need or desire, and to arouse in him the habit of seeking for a cause, and looking beyond the present and immediate to the future and the ultimate. It may be truly said that in a General Science course, All roads lead to Rome, for the course may be commenced any where, and it will lead to a study of all science. In fact, if the pun may be forgiven, in a General Science course, All roads lead to roam, and the pupil, after he is started, needs but to be guided. That is the purpose of this book. It is not easy to teach a course in general science success fully. There is always the temptation to specialize in some particular part, usually the part which the teacher likes best, and about which he knows most. If this temptation is not resisted, the course ceases to be general. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Introduction to Nanoscale Science and Technology Feb 02 2021 From

the reviews: "...A class in nanoscale science and technology is daunting for the educator, who must organize a large collection of materials to cover the field, and for the student, who must absorb all the new concepts. This textbook is an excellent resource that allows students from any engineering background to quickly understand the foundations and exciting advances of the field. The example problems with answers and the long list of references in each chapter are a big plus for course tutors. The book is organized into seven sections. The first, nanoscale fabrication and characterization, covers nanolithography, self-assembly, and scanning probe microscopy. Of these, we enjoyed the section on nanolithography most, as it includes many interesting details from industrial manufacturing processes. The chapter on self-assembly also provides an excellent overview by introducing six types of intermolecular interactions and the ways these can be employed to fabricate nanostructures. The second section covers nanomaterials and nanostructures. Out of its 110 pages, 45 are devoted to carbon nanotubes. Fullerenes and quantum dots each have their own chapter that focuses on the properties and applications of these nanostructures. Nanolayer, nanowire, and nanoparticle composites of metals and semiconductors are briefly covered (just 12 pages), with slightly more discussion of specific applications. The section on nanoscale electronics begins with a history of microelectronics before discussing the difficulties in shrinking transistor size further. The discussion of problems (leakage current, hot electrons, doping fluctuations, etc.) and possible solutions (high- k dielectrics, double-gate devices) could easily motivate deeper discussions of nanoscale electrical transport. A chapter on molecular electronics considers transport through alkanes, molecular transistors, and DNA in a simple, qualitative manner we found highly instructive. Nanoscale magnetic systems are examined in the fourth section. The concept of quantum computation is nicely presented, although the discussion of how this can be achieved with controlled spin states is (perhaps necessarily) not clear. We found the chapter on magnetic storage to be one of the most lucid in the book. The giant magnetoresistive effect, operation of spin valves, and issues in magnetic

scaling are easier to understand when placed in the context of the modern magnetic hard disk drive. Micro- and nanoelectromechanical systems are covered with an emphasis on the integration of sensing, computation, and communication. Here, the student can see advanced applications of lithography. The sixth section, nanoscale optoelectronics, describes quantum dots, organic optoelectronics, and photonic crystals. The chapter on organic optoelectronics is especially clear in its discussion of the fundamentals of this complicated field. The book concludes with an overview of nanobiotechnology that covers biomimetics, biomolecular motors, and nanofluidics. Because so many authors have contributed to this textbook, it suffers a bit from repetition. However, this also allows sections to be omitted without any adverse effect on student comprehension. We would have liked to see more technology to balance the science; apart from the chapters on lithography and magnetic storage, little more than an acknowledgment is given to commercial applications. Overall, this book serves as an excellent starting point for the study of nanoscale science and technology, and we recommend it to anyone with a modest scientific background. It is also a great vehicle to motivate the study of science at a time when interest is waning. Nanotechnology educators should look no further." (MATERIALS TODAY, June 2005)

Semantics Aug 30 2020

An Introduction to Science Studies Apr 30 2023 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.

Introduction to Scientific Psychology Jun 08 2021 We humans are faced with an interesting problem: That which we think we understand the most-our own behavior-we probably understand the least. On the eve of a new millennium. the planet is beset by a host of problems that are. for the most part. caused by human behavior. Ironically. although it seems that the greatest impact of our behavior is on the planet and its other inhabitants. we may actually be threatening our own future the most. For example. we have caused untold harm to the air we breathe. to the water we drink. and. by extension. to much of the food we eat. More important perhaps. we have created a society in which. among other things. many people are anxious and depressed. young women starve themselves. and alcohol and cigarette use are responsible for hundreds of thousands of cases of illness and death every year. And humans still murder one another at an astounding rate. while at the same time continuing to affirm the value of human life. At a time when it is critical that our children become educated. more and more children are not learning the basic skills they will need to think logically so that they can begin to solve the world's problems. The question may be not "Can the planet survive?" but. rather. "Can we humans survive and change our own destructive actions?" Although many scholars. philosophers.

Introduction to Plant Science May 20 2022 This revised text provides a comprehensive introduction to the fascinating world of plant science. From the basic requirements for plant growth, to genetic engineering and biotechnology, this easy-to-understand book is ideal for the high school level agriscience curriculum or college freshman level plant science course. Students will learn about the origins of cultivated plants, structure and anatomy, photosynthesis, respiration, propagation, production of major agronomic crops, and more.

Introduction to Urban Science Jan 22 2020 A novel, integrative approach to cities as complex adaptive systems, applicable to issues ranging from innovation to economic prosperity to settlement patterns. Human beings around the world increasingly live in urban environments. In *Introduction to Urban Science*, Luis Bettencourt takes a novel,

integrative approach to understanding cities as complex adaptive systems, claiming that they require us to frame the field of urban science in a way that goes beyond existing theory in such traditional disciplines as sociology, geography, and economics. He explores the processes facilitated by and, in many cases, unleashed for the first time by urban life through the lenses of social heterogeneity, complex networks, scaling, circular causality, and information. Though the idea that cities are complex adaptive systems has become mainstream, until now those who study cities have lacked a comprehensive theoretical framework for understanding cities and urbanization, for generating useful and falsifiable predictions, and for constructing a solid body of empirical evidence so that the discipline of urban science can continue to develop. Bettencourt applies his framework to such issues as innovation and development across scales, human reasoning and strategic decision-making, patterns of settlement and mobility and their influence on socioeconomic life and resource use, inequality and inequity, biodiversity, and the challenges of sustainable development in both high- and low-income nations. It is crucial, says Bettencourt, to realize that cities are not "zero-sum games" and that knowledge, human cooperation, and collective action can build a better future.

Introduction To Management Science W/Cd Mar 06 2021

Worldviews Dec 27 2022 Winner of the 2018 Choice Award for Outstanding Academic Title! PRAISE FOR PREVIOUS EDITIONS "This is a brilliantly clear introduction (and indeed reframing) of the history and philosophy of science in terms of worldviews and their elements.... In addition, the book is incredibly well-informed from both a scientific and philosophical angle. Highly recommended." Scientific and Medical Network "Unlike many other introductions to philosophy of science, DeWitt's book is at once historically informative and philosophically thorough and rigorous. Chapter notes, suggested readings, and references enhance its value." Choice "Written in clear and comprehensible prose and supplemented by effective diagrams and examples, *Worldviews* is an ideal text for anyone new to the history and philosophy of science. As the reader will come to find out, DeWitt is a

gifted writer with the unique ability to break down complex and technical concepts into digestible parts, making Worldviews a welcoming and not overwhelming book for the introductory reader." History and Philosophy of the Life Sciences, vol. 28(2) Now in its third edition, Worldviews: An Introduction to the History and Philosophy of Science strengthens its reputation as the most accessible and teachable introduction to the history and philosophy of science on the market. Geared toward engaging undergraduates and those approaching the history and philosophy of science for the first time, this intellectually-provocative volume takes advantage of its author's extensive teaching experience, parsing complex ideas using straightforward and sensible examples drawn from the physical sciences. Building on the foundations which earned the book its critical acclaim, author Richard DeWitt considers fundamental issues in the philosophy of science through the historical worldviews that influenced them, charting the evolution of Western science through the rise and fall of dominant systems of thought. Chapters have been updated to include discussion of recent findings in quantum theory, general relativity, and evolutionary theory, and two new chapters exclusive to the third edition enrich its engagement with radical developments in contemporary science. At a time in modern history when the nature of truth, fact, and reality seem increasingly controversial, the third edition of Worldviews presents complex concepts with clarity and verve, and prepares inquisitive minds to engage critically with some of the most exciting questions in the philosophy of science.

[Introduction to Glass Science and Technology, 3rd Edition](#) Aug 11 2021

This introductory text is ideal for undergraduates and graduates presenting the fundamental topics in glass science and technology.

What is Science? Feb 26 2023 An undergraduate introduction to the Philosophy of Science intended for non-philosophers. The five chapters concern the formation, development, nature, use, and limitations of scientific ideas in an attempt to bridge the gap of misunderstanding between the sciences and the humanities.

Introduction to Computational Science Jan 04 2021 Computational science is an exciting new field at the intersection of the sciences,

computer science, and mathematics because much scientific investigation now involves computing as well as theory and experiment. This textbook provides students with a versatile and accessible introduction to the subject. It assumes only a background in high school algebra, enables instructors to follow tailored pathways through the material, and is the only textbook of its kind designed specifically for an introductory course in the computational science and engineering curriculum. While the text itself is generic, an accompanying website offers tutorials and files in a variety of software packages. This fully updated and expanded edition features two new chapters on agent-based simulations and modeling with matrices, ten new project modules, and an additional module on diffusion. Besides increased treatment of high-performance computing and its applications, the book also includes additional quick review questions with answers, exercises, and individual and team projects. The only introductory textbook of its kind—now fully updated and expanded Features two new chapters on agent-based simulations and modeling with matrices Increased coverage of high-performance computing and its applications Includes additional modules, review questions, exercises, and projects An online instructor's manual with exercise answers, selected project solutions, and a test bank and solutions (available only to professors) An online illustration package is available to professors

An Introduction to the Philosophy of Science Dec 15 2021 This book explores central philosophical concepts, issues, and debates in the philosophy of science, both historical and contemporary.

An Introduction to Science and Technology Studies Jan 28 2023 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

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