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The Impact of Science on Society Jul 30 2022 Many of the revolutionary effects of science and technology are obvious enough. Bertrand Russell saw in the 1950s that there are also many negative aspects of scientific innovation. Insightful and controversial in equal measure, Russell argues that science offers the world greater well-being than it has ever known, on the condition that prosperity is dispersed; power is diffused by means of a single, world government; birth rates do not become too high; and war is abolished. Russell acknowledges that is a tall

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order, but remains essentially optimistic. He imagines mankind in a 'race between human skill as to means and human folly as to ends', but believes human society will ultimately choose the path of reason. This Routledge Classics edition includes a new Preface by Tim Sluckin.

Science of Science and Reflexivity Feb 22 2022 Adressing a range of issues and debates in the natural and social sciences, this work provides a sociological analysis of science which enables readers to understand the social mechanisms which shape scientific practice.

Science for All Dec 31 2019 Recent scholarship has revealed that pioneering Victorian scientists endeavored through voluminous writing to raise public interest in science and its implications. But it has generally been assumed that once science became a profession around the turn of the century, this new generation of scientists turned its collective back on public outreach. Science for All debunks this apocryphal notion. Peter J. Bowler surveys the books, serial works, magazines, and newspapers published between 1900 and the outbreak of World War II to show that practicing scientists were very active in writing about their work for a general readership. Science for All argues that the social environment of early twentieth-century Britain created a substantial market for science books and magazines aimed at those who had benefited from better secondary education but could not access higher learning. Scientists found it easy and profitable to write for this audience, Bowler reveals, and because their work was seen as educational, they faced no hostility from their peers. But when admission to colleges and universities became more accessible in the 1960s, this market diminished and professional scientists began to lose interest in writing at the nonspecialist level. Eagerly anticipated by scholars of scientific engagement throughout the ages, Science for All sheds light on our own era and the continuing tension between science and public understanding.

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The Oxford Book of Modern Science Writing Mar 26 2022 Selected and introduced by Richard Dawkins, The Oxford Book of Modern Science Writing is a celebration of the finest writing by scientists for a wider audience - revealing that many of the best scientists have displayed as much imagination and skill with the pen as they have in the laboratory.This is a rich and vibrant collection that captures the poetry and excitement of communicating scientific understanding and scientific effort from 1900 to the present day. Professor Dawkins has included writing from a diverse range of scientists, some of whom need no introduction, and some of whoseworks have become modern classics, while others may be less familiar - but all convey the passion of great scientists writing about their science.
From Natural Philosophy to the Sciences Jul 18 2021 During the 19th century, much of the modern scientific enterprise took shape: scientific disciplines were formed, institutions and communities were founded and unprecedented applications to and interactions with other aspects of society and culture occurred. taught us about this exciting time and identify issues that remain unexamined or require reconsideration. They treat scientific disciplines - biology, physics, chemistry, the earth sciences, mathematics and the social sciences - in their specific intellectual and sociocultural contexts as well as the broader topics of science and medicine; science and religion; scientific institutions and communities; and science, technology and industry. From Natural Philosophy to the Sciences should be valuable for historians of science, but also of great interest to scholars of all aspects of 19th-century life and culture.
Philosophy of Science Sep 19 2021 A great mathematician and teacher bridges the gap between science and the humanities in this exposition of the philosophy of science. Philipp Frank, a distinguished physicist and philosopher in his own right, traces the history of science from Aristotle to Einstein to illustrate philosophy’s ongoing role in the scientific process. Suitable for

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undergraduate students and other readers, this volume explains modern technology's role in the gradual erosion of the rapport between physical theories and philosophical systems, and offers suggestions for restoring the link between these related areas. Dr. Frank examines the ancient Greek concept of natural science to illustrate the development of modern science; then, using geometry as an example, he charts its progress from Euclidean principles through the interpretations of Descartes, Mill, Kant, and the rise of four-dimensional and non-Euclidean geometry. Additional topics include the laws of motion, before and after innovations of Galileo and Newton; perceptions of motion, light, and relativity through the ages; metaphysical interpretations of relativistic physics; the motion of atomic objects and the phenomena and formulations of atomic physics; and the principle of causality and the validation of theories.

The Cambridge Companion to Science and Religion May 28 2022 This book explores the historical relations between science and religion and discusses contemporary issues with perspectives from cosmology, evolutionary biology and bioethics.

Beyond Reason May 04 2020 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 unpredictable 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).

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The Science of Science Sep 27 2019 This is the first comprehensive overview of the exciting field of the 'science of science'. With anecdotes and detailed, easy-to-follow explanations of the research, this book is accessible to all scientists, policy makers, and administrators with an interest in the wider scientific enterprise.

Restoring the Innovative Edge Oct 28 2019 This book provides a framework for restoring America's innovative edge by driving the evolution of science and technology, and ameliorating obstacles and blockages that cause failures in this process. The book's perspective is informed not only by the author's decades of research on innovation, but also his recent consulting with national public research laboratories and agencies.

Science and Modernity Oct 01 2022 Science is a multifaceted, natural and historical phenomenon. It consists of five elements, that is, it happens in five distinct media: biological, linguistic, technological, social, and historical. None of these alone provides an indubitable basis for the truth of scientific knowledge, but combined together they compose a solid ground for our trust in its reliability. The composition, however, is uniquely related to our modern mode of living. Science did not exist before modernity, and it will cease to exist in this form if our way of life should change. The book presents a thorough analysis of all these dimensions and their relations, and thus lays the path for an integral theory of science. Because of this it can be used as a textbook for general courses in the theory of science at both the undergraduate and graduate level.

The Stories of Science Nov 21 2021 Explores how the power of story can strengthen your instruction by weaving literacy into what you already teach. The strategies in this book will deepen content understanding and prepare students to be effective science communicators as well.

Why Trust Science? Feb 10 2021 This book explains why the social character of scientific knowledge makes it trustworthy and

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why social character is its greatest strength--for example, why we should trust doctors on vaccine safety, or climate experts on the perils of global warming. It traces the history and philosophy of science from the late nineteenth century to today, and explains that the trustworthiness of scientific claims derives from the social process by which they are rigorously vetted.

The Responsibility of Science Jun 28 2022 This open access book provides an overview of issues of scientific responsibility. The volume comprises three types of contributions: first, analyses of the responsibility of science; second, analyses of the structural conditions for science and its responsibility; and third, normative versions of scientific responsibility. The questions and problems dealt with include science as a profession, ambivalence of research and dual-use, innovation vs. precaution, notions of responsibility, the role of science within society and its relation to human rights, as well as scientific and public discourses. The book addresses scholars in the fields of Science Studies and Research Policy. This is an open access book.

The Book of Big Science Ideas Jun 16 2021 A beautifully illustrated celebration of science from the clever people who bring you AQUILA magazine. Ideas are important. They change things. A single idea can start a war, save billions of lives, even rearrange whole planetary systems, or simply make a person giggle until they pee a little bit. They can be totally wrong but widely believed, or undoubtedly right and completely ignored. What's more, they're free, and anyone can have one-including you! The Book of Big Science Ideas looks at 15 brilliant science ideas and more than 50 ingenious thinkers who have helped shape our understanding of the world - whether they were right or wrong! Thinkers include, Wang Zhenyi, Louis Pasteur, Marie Curie, James Joule, Rosalind Franklin, Charles Darwin, Aristotle, Edith Clarke, Isaac Newton, Grace Hopper, Alan Turing, Ada Lovelace and many, many more! From established ideas like atoms, electricity and the solar system, and ideas that are still

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evolving such as gravity, energy and classification, right up to recent discoveries like AI and genetics - this jam-packed book takes a fresh approach to science.

States of Knowledge Apr 02 2020 Notes on contributors Acknowledgements 1. The Idiom of Co-production Sheila Jasanoff 2. Ordering Knowledge, Ordering Society Sheila Jasanoff 3. Climate Science and the Making of a Global Political Order Clark A. Miller 4. Co-producing CITES and the African Elephant Charis Thompson 5. Knowledge and Political Order in the European Environment Agency Claire Waterton and Brian Wynne 6. Plants, Power and Development: Founding the Imperial Department of Agriculture for the West Indies, 1880-1914 William K. Storey 7. Mapping Systems and Moral Order: Constituting property in genome laboratories Stephen Hilgartner 8. Patients and Scientists in French Muscular Dystrophy Research Vololona Rabeharisoa and Michel Callon 9. Circumscribing Expertise: Membership categories in courtroom testimony Michael Lynch 10. The Science of Merit and the Merit of Science: Mental order and social order in early twentieth-century France and America John Carson 11. Mysteries of State, Mysteries of Nature: Authority, knowledge and expertise in the seventeenth century Peter Dear 12. Reconstructing Sociotechnical Order: Vannevar Bush and US science policy Michael Aaron Dennis 13. Science and the Political Imagination in Contemporary Democracies Yaron Ezrah 14. Afterword Sheila Jasanoff References Index

The Philosophies of Science Dec 11 2020 "Shows how various views about the nature of science are related to the great historical schools of philosophy ... [bringing] out most clearly the influence of the philosophical theories on the development of science, and of scientific discovery on modes of thinking in philosophy."--Back cover.

Citizen Science Apr 26 2022 Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It

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provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today. *Popular Science* Jul 26 2019 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. **Scientific Knowledge and the Transgression of Boundaries** Jan 12 2021 The aim of this book is to understand and critically appraise science-based transgression dynamics in their whole complexity. It includes contributions from experts with different disciplinary backgrounds, such as philosophy, history and sociology. Thus, it is in itself an example of boundary transgression.Scientific disciplines and their objects have tended to be seen as permanent and distinct. However, science is better conceived as an activity that constantly surpasses, erases and rebuilds all kinds of boundaries, either disciplinary, socio-ethical or ecological. This transgressive capacity, a characteristic trait of science and its applications, defines us as "knowledge societies."

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However, scientific and technological developments are also sources of serious environmental and social concerns.

McGraw-Hill Encyclopedia of Science and Technology Nov 09 2020 Accompanied by Readers' guide (33 p. ; 28 cm.) New York : McGraw-Hill, c1977. Call number: Q121.M3 1977 Suppl. 1. Accompanied by Study guide (50 p. ; 28 cm.) New York : McGraw-Hill, c1977. Call number: Q121.M3 1977 Suppl. 2.

The Universe in a Single Atom Oct 09 2020 Galileo, Copernicus, Newton, Niels Bohr, Einstein. Their insights shook our perception of who we are and where we stand in the world, and in their wake have left an uneasy coexistence: science vs. religion, faith vs. empirical inquiry. Which is the keeper of truth? Which is the true path to understanding reality? After forty years of study with some of the greatest scientific minds, as well as a lifetime of meditative, spiritual, and philosophic study, the Dalai Lama presents a brilliant analysis of why all avenues of inquiry—scientific as well as spiritual—must be pursued in order to arrive at a complete picture of the truth. Through an examination of Darwinism and karma, quantum mechanics and philosophical insight into the nature of reality, neurobiology and the study of consciousness, the Dalai Lama draws significant parallels between contemplative and scientific examinations of reality. This breathtakingly personal examination is a tribute to the Dalai Lama’s teachers—both of science and spirituality. The legacy of this book is a vision of the world in which our different approaches to understanding ourselves, our universe, and one another can be brought together in the service of humanity.

Instrumental Biology, Or The Disunity of Science Jun 24 2019 Do the sciences aim to uncover the structure of nature, or are they ultimately a practical means of controlling our environment? In Instrumental Biology, or the Disunity of Science, Alexander Rosenberg argues that while physics and chemistry can develop laws that reveal the structure of natural phenomena, biology is fated to be a practical, instrumental discipline. Because of the

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complexity produced by natural selection, and because of the limits on human cognition, scientists are prevented from uncovering the basic structure of biological phenomena. Consequently, biology and all of the disciplines that rest upon it—psychology and the other human sciences—must aim at most to provide practical tools for coping with the natural world rather than a complete theoretical understanding of it.

Popular Science Nov 29 2019 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Science and the American Century Mar 14 2021 The twentieth century was one of astonishing change in science, especially as pursued in the United States. Against a backdrop of dramatic political and economic shifts brought by world wars, intermittent depressions, sporadic and occasionally massive increases in funding, and expanding private patronage, this scientific work fundamentally reshaped everyday life. Science and the American Century offers some of the most significant contributions to the study of the history of science, technology, and medicine during the twentieth century, all drawn from the pages of the journal Isis. Fourteen essays from leading scholars are grouped into three sections, each presented in roughly chronological order. The first section charts several ways in which our knowledge of nature was cultivated, revealing how scientific practitioners and the public alike grappled with definitions of the “natural” as they absorbed and refracted global information. The essays in the second section investigate the changing attitudes and fortunes of scientists during and after World War II. The final section documents the intricate ways that science, as it advanced, became intertwined with social policies and the law. This important and useful book provides a thoughtful and detailed overview for scholars and students of American history and the

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history of science, as well as for scientists and others who want to better understand modern science and science in America.

Science and Ethics Apr 14 2021 Philosophy of science used to be identified with the logical and methodological analysis of scientific theories, and any allusion to values was considered as a deplorable intromission in a philosophical investigation that should remain strictly epistemological. As a reaction against this view, an opposite «sociological» approach downplayed the usual virtues of scientific knowledge (such as logical rigor and empirical adequacy) as artificial imageries that cover the actual nature of science, that is a social product submitted to all the kinds of social conditionings and compromises. A more balanced view is badly needed today, when technoscience is permeating all aspects of our civilization and wise persons understand that we cannot survive without using science and technology but at the same time we need to steer their development in view of the real benefit of humankind. We must investigate how science, technology and values are legitimately interconnected and, in particular, how the discourses of ethics, politics and religion can enter a fruitful dialogue with science. The essays presented in this volume offer a valuable contribution to this interdisciplinary study.

The Cambridge History of Science: Volume 3, Early Modern Science May 16 2021 An account of European knowledge of the natural world, c.1500-1700.

Sebastião Salgado. Amazônia Oct 21 2021 For six years Sebastião Salgado traveled the Brazilian Amazon and photographed the unparalleled beauty of this extraordinary region: the rainforest, the rivers, the mountains, the people who live there--this irreplaceable treasure of humanity in which the immense power of nature is felt like nowhere else on earth.

I Am a Book. I Am a Portal to the Universe Aug 26 2019 Hello. I am a book. But I'm also a portal to the universe. I have 112 pages, measuring twenty centimetres high and twenty

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centimetres wide. I weigh 450 grams. And I have the power to show you the wonders of the world.

Handbook of Science and Technology Convergence Sep 07 2020 Scientists and engineers have long been aware of the tension between narrow specialization and multidisciplinary cooperation, but now a major transformation is in process that will require technical fields to combine far more effectively than formerly in the service of human benefit. This handbook will catalog all the ways this can be accomplished and the reasons it must be. Nature is a single coherent system and diverse methods of scientific and engineering investigations should reflect this interlinked and dynamic unity. Accordingly, general concepts and ideas should be developed systematically in interdependence, with cause-and-effect pathways, for improved outcomes in knowledge, technology and applications. At the same time, industrial and social applications rely on integration of disciplines and unification of knowledge. Thus, convergence is both a fundamental principle of nature and a timely opportunity for human progress. This handbook will represent the culmination of fifteen years of workshops, conferences and publications that initially explored the connections between nanotechnology, biotechnology, information technology and new technologies based on cognitive science. A constant emphasis on human benefit then drew in the social sciences, even as shared scientific and ethical principles brought in sustainability of the Earth environment and the challenge of equitable economic advancement. The intellectual contributions of literally hundreds of scientists and engineers established a number of research methods and analytical principles that could unite disparate fields. The culmination has been called Convergence of Knowledge and Technology for the benefit of Society (CKTS), defined as the escalating and transformative interactions among seemingly different disciplines, technologies, communities and domains of human activity to achieve mutual compatibility, synergism and

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integration.

Embracing Mind Mar 02 2020 Examines the integral link between science and spirituality in the two areas' quest for "ultimate truths," arguing that science hampers its search by ignoring the human mind as the ultimate source of inspiration and the separation between the fields is unnecessary. 15,000 first printing.

Information Science & Technology in China: A Roadmap to 2050 Aug 07 2020 As one of the eighteen field-specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences, this sub-report addresses long-range planning for developing science and technology in the field of information science & technology. They each craft a roadmap for their sphere of development to 2050. In their entirety, the general and sub-group reports analyze the evolution and laws governing the development of science and technology, describe the decisive impact of science and technology on the modernization process, predict that the world is on the eve of an impending S&T revolution, and call for China to be fully prepared for this new round of S&T advancement. Based on the detailed study of the demands on S&T innovation in China's modernization, the reports draw a framework for eight basic and strategic systems of socio-economic development with the support of science and technology, work out China's S&T roadmaps for the relevant eight basic and strategic systems in line with China's reality, further detail S&T initiatives of strategic importance to China's modernization, and provide S&T decision-makers with comprehensive consultations for the development of S&T innovation consistent with China's reality. Supported by illustrations and tables of data, the reports provide researchers, government officials and entrepreneurs with guidance concerning research directions, the planning process, and investment. Founded in 1949, the Chinese Academy of Sciences is the nation's highest academic institution in natural sciences. Its major

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responsibilities are to conduct research in basic and technological sciences, to undertake nationwide integrated surveys on natural resources and ecological environment, to provide the country with scientific data and consultations for government's decision-making, to undertake government-assigned projects with regard to key S&T problems in the process of socio-economic development, to initiate personnel training, and to promote China's high-tech enterprises through its active engagement in these areas.

The Faber Book of Science Nov 02 2022 The Faber Book of Science introduces hunting spiders and black holes, gorillas and stardust, protons, photons and neutrinos. In his acclaimed anthology, John Carey plots the development of modern science from Leonardo da Vinci to Chaos Theory. The emphasis is on the scientists themselves and their own accounts of their breakthroughs and achievements. The classic science-writers are included - Darwin, T.H. Huxley and Jean Henri Fabre tracking insects through the Provencal countryside. So too are today's experts - Steve Jones on the Human Genome Project, Richard Dawkins on DNA and many other representatives of the contemporary genre of popular science-writing which, John Carey argues, challenges modern poetry and fiction in its imaginative power.

Science and the Modern World Aug 31 2022 Alfred North Whitehead's Science and the Modern World, originally published in 1925, redefines the concept of modern science. Taking readers through the history of modern science, Whitehead shows how cultural history has affected science over the ages in relation to such major intellectual themes as romanticism, relativity, quantum theory, religion, and movements for social progress.

Bulletin of the Atomic Scientists Jun 04 2020 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

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Clock" stimulates solutions for a safer world.
Issues in Science and Religion Aug 19 2021 First published 1966 Includes index Includes bibliographical references Campion Collection.
Visions of Science Dec 23 2021 The first half of the nineteenth century witnessed an extraordinary transformation in British political, literary, and intellectual life. There was widespread social unrest, and debates raged regarding education, the lives of the working class, and the new industrial, machine-governed world. At the same time, modern science emerged in Europe in more or less its current form, as new disciplines and revolutionary concepts, including evolution and the vastness of geologic time, began to take shape. In Visions of Science, James A. Secord offers a new way to capture this unique moment of change. He explores seven key books—among them Charles Babbage's Reflections on the Decline of Science, Charles Lyell's Principles ofGeology, Mary Somerville's Connexion of the Physical Sciences, and Thomas Carlyle's Sartor Resartus—and shows how literature that reflects on the wider meaning of science can be revelatory when granted the kind of close reading usually reserved for fiction and poetry. These books considered the meanings of science and its place in modern life, looking to the future, coordinating and connecting the sciences, and forging knowledge that would be appropriate for the new age. Their aim was often philosophical, but Secord shows it was just as often imaginative, projective, and practical: to suggest not only how to think about the natural world but also to indicate modes of action and potential consequences in an era of unparalleled change. Visions of Science opens our eyes to how genteel ladies, working men, and the literary elite responded to these remarkable works. It reveals the importance of understanding the physical qualities of books and the key role of printers and publishers, from factories pouring out cheap compendia to fashionable publishing houses in London's West End. Secord's vivid account takes us to

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the heart of an information revolution that was to have profound consequences for the making of the modern world.

The Historical Development of Science and Technology in Nigeria Jan 30 2020 Areas discussed in this text include traditional methods of food processing, cassava-processing technology in the contemporary period, textile technology, and pedagogy and science teaching in Nigeria. There is also a specific focus on gender and technology. The text concentrates on the historical dimension but approaches the subject in the context of multidisciplinary interpretation.

Philosophy of Science Jul 06 2020 This text focuses on two major issues: the nature of scientific inquiry and the relations between scientific disciplines. Designed to introduce the basic issues and concepts in the philosophy of science, Bechtel writes for an audience with little or no philosophical background. The first part of the book explores the legacy of Logical Positivism and the subsequent post-Positivistic developments in the philosophy of science. The second section examines arguments for and against using a model of theory reduction to integrate scientific disciplines. The book concludes with a chapter describing non-reductionist approaches for relating scientific disciplines using psycholinguistic and cognitive neuroscience models.

The Science of Citizen Science Jan 24 2022 This open access book discusses how the involvement of citizens into scientific endeavors is expected to contribute to solve the big challenges of our time, such as climate change and the loss of biodiversity, growing inequalities within and between societies, and the sustainability turn. The field of citizen science has been growing in recent decades. Many different stakeholders from scientists to citizens and from policy makers to environmental organisations have been involved in its practice. In addition, many scientists also study citizen science as a research approach and as a way for science and society to interact and collaborate. This book provides a representation of the practices as well as scientific and

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societal outcomes in different disciplines. It reflects the contribution of citizen science to societal development, education, or innovation and provides and overview of the field of actors as well as on tools and guidelines. It serves as an introduction for anyone who wants to get involved in and learn more about the science of citizen science.

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