



# responsible science

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# Responsible Science

**Anne Hudson Jones, Faith McLellan**



## **Responsible Science:**

**Responsible Science** Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Panel on Scientific Responsibility and the Conduct of Research, 1993-02-01  
Volume II of Responsible Science includes background papers and selected institutional reports policies and procedures that were used to develop Volume I Topics discussed include traditions of mentorship in science data handling practices in the biological sciences academic policies and standards governing the conduct of research practices congressional interest in issues of misconduct and integrity in science the regulatory experience of human subjects research and the roles of scientific and engineering societies in fostering research integrity The panel also considers numerous institutional policy statements adopted by research universities and professional societies that address different aspects of misconduct or integrity in science These statements have been selected to convey the diverse approaches for addressing such matters within research institutions

**Responsible Science, Volume I:** National Academy of Sciences, National Academy of Engineering, Institute of Medicine, Panel on Scientific Responsibility and the Conduct of Research, National Academy of Engineering, National Academy of Sciences, Institute of Medicine, 1992-01-01 Responsible Science is a comprehensive review of factors that influence the integrity of the research process Volume I examines reports on the incidence of misconduct in science and reviews institutional and governmental efforts to handle cases of misconduct The result of a two year study by a panel of experts convened by the National Academy of Sciences this book critically analyzes the impact of today s research environment on the traditional checks and balances that foster integrity in science Responsible Science is a provocative examination of the role of educational efforts research guidelines and the contributions of individual scientists mentors and institutional officials in encouraging responsible research practices

*Responsible Science* Panel on Scientific Responsibility and the Conduct of Research, 1992 Responsible Science is a comprehensive review of factors that influence the integrity of the research process Volume I examines reports on the incidence of misconduct in science and reviews institutional and governmental efforts to handle cases of misconduct The result of a two year study by a panel of experts convened by the National Academy of Sciences this book critically analyzes the impact of today s research environment on the traditional checks and balances that foster integrity in science Responsible Science is a provocative examination of the role of educational efforts research guidelines and the contributions of individual scientists mentors and institutional officials in encouraging responsible research practices

**Responsible Science, Volume I** Panel on Scientific Responsibility and the Conduct of Research, National Academy of Sciences, National Academy of Engineering, Institute of Medicine, Institute of Medicine, National Academy of Sciences, National Academy of Engineering, 1992-01-15 Responsible Science is a comprehensive review of factors that influence the integrity of the research process Volume I examines reports on the incidence of misconduct in science and reviews institutional and governmental efforts to handle cases of misconduct The

result of a two year study by a panel of experts convened by the National Academy of Sciences this book critically analyzes the impact of today's research environment on the traditional checks and balances that foster integrity in science

**Responsible Science** is a provocative examination of the role of educational efforts research guidelines and the contributions of individual scientists mentors and institutional officials in encouraging responsible research practices

**Bending Science** Thomas O. McGarity, Wendy E. Wagner, 2012-03-15 What do we know about the possible poisons that industrial technologies leave in our air and water How reliable is the science that federal regulators and legislators use to protect the public from dangerous products As this disturbing book shows ideological or economic attacks on research are part of an extensive pattern of abuse Thomas O McGarity and Wendy E Wagner reveal the range of sophisticated legal and financial tactics political and corporate advocates use to discredit or suppress research on potential human health hazards Scientists can find their research blocked or find themselves threatened with financial ruin Corporations plaintiff attorneys think tanks even government agencies have been caught suppressing or distorting research on the safety of chemical products With alarming stories drawn from the public record McGarity and Wagner describe how advocates attempt to bend science or spin findings They reveal an immense range of tools available to shrewd partisans determined to manipulate research Bending Science exposes an astonishing pattern of corruption and makes a compelling case for reforms to safeguard both the integrity of science and the public health

**Philosophy of Science after Feminism** Janet A. Kourany, 2010-10-28 In this monograph Janet A Kourany argues for a philosophy of science more socially engaged and socially responsible than the philosophy of science we have now The central questions feminist scientists philosophers and historians have been raising about science during the last three decades form Kourany's point of departure and her response to these questions builds on their insights This way of approaching science differs from mainstream philosophy of science in two crucial respects it locates science within its wider societal context rather than treating science as if it existed in a social political and economic vacuum and it points the way to a more comprehensive understanding of scientific rationality one that integrates the ethical with the epistemic Kourany develops her particular response dubbed by her the ideal of socially responsible science beyond the gender related questions and contexts that form its origins and she defends it against a variety of challenges epistemological historical sociological economic and political She ends by displaying the important new directions philosophy of science can take and the impressive new roles philosophers of science can fill with the approach to science she offers

*Practical Guidance on Science and Engineering Ethics Education for Instructors and Administrators* National Academy of Engineering, Online Ethics Center, Joint Advisory Group to the Center for Engineering, Ethics, and Society, 2013-09-23 Over the last two decades colleges and universities in the United States have significantly increased the formal ethics instruction they provide in science and engineering Today science and engineering programs socialize students into the values of scientists and engineers as well as their obligations in the conduct of scientific research and in the practice of engineering

Practical Guidance on Science and Engineering Ethics Education for Instructors and Administrators is the summary of a workshop convened in December 2012 to consider best practices for ethics education programs in science and engineering. The workshop focused on four key areas: goals and objectives for ethics instruction, instructional assessment, institutional and research cultures, and development of guidance checklists for instructors and administrators. Leading experts summarized and presented papers on current research knowledge in these areas. This report presents the edited papers and a summary of the discussions at the workshop.

**CBRN Security Culture in Practice** J. Thompson, S. Gahlaut, 2015-09-03. Evolving threats of chemical, biological, radiological, and nuclear (CBRN) attack make it imperative to find ways to support global efforts against the proliferation of weapons of mass destruction (WMD) and terrorism. This book contains papers presented at the NATO Advanced Study Institute (ASI) on CBRN security culture held in Yerevan, Armenia, in June 2014. The conference was timely in bringing together the various aspects of security culture in the different substantive areas from a CBRN perspective, focusing efforts to advance CBRN security culture in the everyday work of those who must deal with these ever-present threats. The primary aim of the conference was to promote the concept of a CBRN security culture which recognizes synergy across the individual disciplines. As a first step in the practical application of this synergistic view, the conference introduced assessment methodologies that could be refined and customized to enhance the role of the human factor in CBRN security. This, we hope, will enable countries to fulfill their international obligations and implement United Nations Security Council Resolution 1540. The book reflects the presentations and deliberations of workshop participants and will be of interest to governments, international organizations, researchers, and practitioners whose work involves the human dimension of the security of CBRN materials.

**Handbook of Research on Science Education, Volume II** Norman G. Lederman, Sandra K. Abell, 2014-07-11. Building on the foundation set in Volume I, a landmark synthesis of research in the field, Volume II is a comprehensive state-of-the-art new volume highlighting new and emerging research perspectives. The contributors, all experts in their research areas, represent the international and gender diversity in the science education research community. The volume is organized around six themes: theory and methods of science education research, science learning, culture, gender and society, and science teaching, curriculum, and assessment in science teacher education. Each chapter presents an integrative review of the research on the topic, pulling together the existing research, working to understand the historical trends and patterns in that body of scholarship, describing how the issue is conceptualized within the literature, how methods and theories have shaped the outcomes of the research, and where the strengths, weaknesses, and gaps are in the literature. Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research, the **Handbook of Research on Science Education, Volume II** is an essential resource for the entire science education community.

**The Routledge Handbook of Feminist Philosophy of Science** Sharon Crasnow, Kristen Intemann, 2020-11-30. The Routledge Handbook of Feminist Philosophy of Science is a

comprehensive resource for feminist thinking about and in the sciences Its 33 chapters were written exclusively for this Handbook by a group of leading international philosophers as well as scholars in gender studies women s studies psychology economics and political science The chapters of the Handbook are organized into four main parts I Hidden Figures and Historical Critique II Theoretical Frameworks III Key Concepts and Issues IV Feminist Philosophy of Science in Practice The chapters in this extensive fourth part examine the relevance of feminist philosophical thought for a range of scientific and professional disciplines including biology and biomedical sciences psychology cognitive science and neuroscience the social sciences physics and public policy The Handbook gives a snapshot of the current state of feminist philosophy of science allowing students and other newcomers to get up to speed quickly in the subfield and providing a handy reference for many different kinds of researchers

**Evidence Matters** Susan Haack,2014-07-28 Susan Haack brings her distinctive work in theory of knowledge and philosophy of science to bear on real life legal issues

**Research Administration and Management** Elliott Kulakowski,Lynne U. Chronister,2006 This reference text addresses the basic knowledge of research administration and anagement and includes everything from a review of research administration and the infrastructure that is necessary to support research to project development and post project plans Examples of concepts case studies a glossary of terms and acronyms and references to books journal articles monographs and federal regulations are also included

*The Ethical Dimensions of the Biological and Health Sciences* Ruth Ellen Bulger,Elizabeth Heitman,Stanley Joel Reiser,2002-06-24 This is the second edition of a highly successful and well received textbook on the responsible conduct of biomedical and health science research It is aimed at faculty and graduate students in health science and biomedical science programs In addition those on National Institute of Health research grants administrators at universities academic health centers and medical and graduate schools will find the book a useful resource The structure of the book remains the same as the first edition Each chapter offers an overview together with important primary documents and case studies concerned with core ethical issues underlying responsible research The major changes from the first edition include new chapters providing overviews of each topic several new published articles added to the readings revised case studies along with an essay on how they can be used as well as further readings and web addresses that will serve as invaluable sources of reference

**Ethical Issues in Biomedical Publication** Anne Hudson Jones,Faith McLellan,2003-05-01 When the editors of two of the most prominent medical journals in the world the New England Journal of Medicine and the Journal of the American Medical Association JAMA were fired in the same year under circumstances that ranged from acrimonious to politically sensational media attention again focused on biomedical publication The controversy highlighted yet another ethical dimension of scientific research and its publication topics that have generated intense scrutiny in recent years As research funding has become scarcer and competition fiercer with links between scientific discovery and commercial applications increasingly tighter and more lucrative allegations of misconduct have also increased Universities and research

institutions notably the NIH have created offices of scientific integrity and mandated educational programs to investigate such allegations and to train researchers in the highest standards of sound ethical scientific research Focusing on publication ethics as an essential aspect of responsible scientific conduct *Ethical Issues in Biomedical Publication* examines a variety of troublesome issues including authorship peer review repetitive publication conflict of interest and electronic publishing The contributors include the editors of distinguished biomedical journals among them past or present editors of *Academic Medicine* *Annals of Internal Medicine* *British Medical Journal* *JAMA* and the *Lancet* humanities scholars scientists lawyers and a university administrator Chapters address specific ethical issues and offer recommendations for preventing or solving problems associated with them The result is a book that will serve as a standard reference for biomedical researchers authors editors and teachers of research ethics Educators administrators scientists editors and students should all welcome this comprehensive new book Anne Hudson Jones and Faith McLellan have gathered a veritable who's who in the field of publication ethics for biomedical research All those with a stake in biomedical research will surely want this volume on their bookshelf from the Foreword by Jordan J Cohen M D President Association of American Medical Colleges     *Vying for Truth - Theology and the Natural Sciences* Hans Schwarz, 2014-06-18 The emancipation of the natural sciences from religion was a gradual affair during the last four centuries Initially many of the leading scientists were churchmen indicating a symbiosis between faith and reason Due to the increasing specialization in the sciences this close connection came to an end often leading to antagonism and mutual suspicion This book traces this historical development with its twists and turns in both Europe and North America It depicts the major players in this story and outlines their specific contributions The main focus is on the 19th and 20th centuries with figures such as Darwin and Hodge but also Beecher and Abbott in the 19th century In the 20th century the narrative starts with Karl Barth and moves all the way to Hawking and Tipler Special attention is given to representatives from North America Great Britain and Germany In conclusion important issues are presented in the present day dialogue between theology and the natural sciences The issue of design and fine tuning is picked up and advances in brain research Finally technological issues are assessed and the status of medicine as a helpmate for life is discussed An informative and thought provoking book     **Technocracy and the Law** Alessandra Arcuri, Florin Coman-Kund, 2021-05-27 Technocratic law and governance is under fire Not only populist movements have challenged experts NGOs public intellectuals and some academics have also criticized the too close relation between experts and power While the amount of power gained by experts may be contested it is unlikely and arguably undesirable that experts will cease to play an influential role in contemporary regulatory regimes This book focuses on whether and how experts involved in policymaking can and should be held accountable The book divided into four parts combines theoretical analysis with a wide variety of case studies expounding the challenges of holding experts accountable in a multilevel setting Part I offers new perspectives on accountability of experts including a critical comparison between accountability and a virtue ethical

framework for experts a reconceptualization of accountability through the rule of law prism and a discussion of different ways to operationalize expert accountability Parts I IV organized around in depth case studies shed light on the accountability of experts in three high profile areas for technocratic governance in a European and global context economic and financial governance environmental health and safety governance and the governance of digitization and data protection By offering fresh insights into the manifold aspects of technocratic decisionmaking and suggesting new avenues for rethinking expert accountability within multilevel governance this book will be of great value not only to students and scholars in international and EU law political science public administration science and technology studies but also to professionals working within EU institutions and international organizations

*The Ethics of Nanotechnology, Geoengineering, and Clean Energy* Andrew Maynard, Jack Stilgoe, 2020-07-26 Nanotechnology clean technology and geoengineering span the scale of human ingenuity from the imperceptibly small to the unimaginably large Yet they are united by a commonality of ethics that permeates how and why they are developed and how the resulting consequences are managed The articles in this volume provide a comprehensive account of current thinking around the ethics of development and use within each of the technological domains and addresses challenges and opportunities that cut across all three In particular the collection provides unique insights into the ethics of noumenal technologies technologies that are impossible to see or detect or conceive of with human senses or conventional tools This collection will be of relevance to anyone who is actively involved with ensuring the responsible and sustainable development of nanotechnology geoengineering or clean technology

**AMA Manual of Style** The JAMA Network Editors, 2019-11-01 The AMA Manual of Style is a must have resource for anyone involved in medical health and scientific publishing Written by an expert committee of JAMA Network editors this latest edition addresses issues that face authors editors and publishers in the digital age Extensive updates are included in the References chapter with examples of how to cite digital publications preprints databases data repositories podcasts apps and interactive games and social media Full color examples grace the chapter on data display with newer types of graphic presentations and updated guidance on formatting tables and figures The manual thoroughly covers ethical and legal issues such as authorship conflicts of interest scientific misconduct intellectual property open access and public access and corrections The Usage chapter has been revised to bring the manual up to date on word choice especially in writing about individuals with diseases or conditions and from various socioeconomic racial ethnic and sexual orientation populations Specific nomenclature entries in many disciplines are presented to guide users in issues of diction formatting and preferred terminology Guidance on numbers SI units and math has been updated and the section on statistics and study design has undergone a major expansion In sum the answer to nearly any issue facing a writer or editor in medicine health care and related disciplines can be found in the 11th edition of the AMA Manual of Style Available for institutional purchase or subscription or individual subscription Visit [AMAManualofStyle.com](http://AMAManualofStyle.com) or contact your sales rep for more details

**Future**



**Earth** Diana Dalbotten, Gillian Roehrig, Patrick Hamilton, 2014-04-08 Earth now is dominated by both biogeophysical and anthropogenic processes as represented in these two images from a simulation of aerosols Dust red from the Sahara sweeps west across the Atlantic Ocean Sea salt blue rises into the atmosphere from winds over the North Atlantic and from a tropical cyclone in the Indian Ocean Organic and black carbon green from biomass burning is notable over the Amazon and Southeast Asia Plumes of sulfate white from fossil fuel burning are particularly prominent over northeastern North America and East Asia If present trends of dust emissions and fossil fuel burning continues in what we call the Anthropocene epoch then we could experience high atmospheric CO<sub>2</sub> levels leading to unusual warming rarely experienced in Earth's history This book focuses on human influences on land ocean and the atmosphere to determine if human activities are operating within or beyond the safe zones of our planet's biological chemical and physical systems Volume highlights include Assessment of civic understanding of Earth and its future Understanding the role of undergraduate geoscience research and community driven research on the Anthropocene Effective communication of science to a broader audience that would include the public the K-12 science community or populations underrepresented in the sciences Public outreach on climate education geoscience alliance and scientific reasoning Future Earth is a valuable practical guide for scientists from all disciplines including geoscientists museum curators science educators and public policy makers Teachable Moments and the Science of Education Greg Seals, 2018-08-06 This book develops a general theory of autonomous teaching by examining a mysterious educational idea the teachable moment By formulating an understanding of the teachable moment as predicated upon educational energy this book takes up John Dewey's view of teaching to articulate a law-like scientifically oriented pedagogical theory By offering a testable hypothesis about effective teaching through an innovative reading of Dewey's law this book also provides insights into changes in school practice and schooling policy consonant with an understanding of teaching as a science

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### Responsible Science Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Responsible Science free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Responsible Science free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Responsible Science free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free.

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web for the 73 art exhibitions the average cost was 90 000 while for the 77 non art exhibitions the average cost was nearly 450 000 the average cost per sq ft 7 for the art exhibitions was 19 40 sd 14 91 median 16 50 while the average for the non art exhibitions was 91 89 sd 127 65 median 50 8 the average size for the

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web jan 30 2020 for example if you want to print 20 color posters to post on campus and in northfield budget about 5 00 for printing 0 24 per print examples the examples given below were funded in part by viz grants they represent a relatively small scale exhibition and a larger scale exhibition

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web exhibitions and specially designed workshops and resources for teachers such as school tours and online programs for all grade levels the national gallery s conservation division is one of the largest and most comprehensive of the world s art museums with laboratories for conserving paintings

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web feb 14 2020 seek estimates and prepare a budget for your organizer costs as well as the venue shared costs associated with the exhibition you will need to provide the total valuation for the show and determine insurance coverage as part of the budgeting process please use the budget template provided here 3

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web jan 1 2006 so for example special exhibitions provide an opportunity for directors of art museums to appropriate at least part of the extra revenue generated

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web 2018 the art museums by the numbers report is released regularly by the association of art museums directors aamd to inform audiences about key aspects of art museum operations the report provides an overview of the field with benchmarking data drawn from aamd s yearly member survey

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