

RESPONSIBLE SCIENCE

Ensuring
the Integrity
of the
Research Process

VOLUME II



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Responsible Science Ensuring The Integrity Of The Research Process

**National Academy of Sciences.
Committee on Science, Engineering
and Public Policy**



Responsible Science Ensuring The Integrity Of The Research Process:

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 **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 ,1992 Responsible Science National Academy of Sciences. Committee on Science, Engineering and Public Policy,1992 **Responsible Science** ,1992 *Fostering Integrity in Research* National Academies of Sciences, Engineering, and Medicine,Policy and Global Affairs,Committee on Science, Engineering, Medicine, and Public Policy,Committee on Responsible Science,2018-01-13

The integrity of knowledge that emerges from research is based on individual and collective adherence to core values of objectivity honesty openness fairness accountability and stewardship Integrity in science means that the organizations in which research is conducted encourage those involved to exemplify these values in every step of the research process Understanding the dynamics that support or distort practices that uphold the integrity of research by all participants ensures that the research enterprise advances knowledge The 1992 report *Responsible Science Ensuring the Integrity of the Research Process* evaluated issues related to scientific responsibility and the conduct of research It provided a valuable service in describing and analyzing a very complicated set of issues and has served as a crucial basis for thinking about research integrity for more than two decades However as experience has accumulated with various forms of research misconduct detrimental research practices and other forms of misconduct as subsequent empirical research has revealed more about the nature of scientific misconduct and because technological and social changes have altered the environment in which science is conducted it is clear that the framework established more than two decades ago needs to be updated *Responsible Science* served as a valuable benchmark to set the context for this most recent analysis and to help guide the committee s thought process *Fostering Integrity in Research* identifies best practices in research and recommends practical options for discouraging and addressing research misconduct and detrimental research practices

Research Methods for Public Administrators Gary Rassel, Maureen Berner, Jocelyn DeVance Taliaferro, Elizabethann O'Sullivan, 2016-10-04 *Research Methods for Public Administrators* introduces students to the methodological tools public administrators and policy analysts use to conduct research in the twenty first century Full of engaging examples and step by step instructions to illustrate common research methods and techniques this book provides future administrators with an unshakeable foundation in model building research design and statistical applications New to the Sixth Edition Sections addressing recent developments in research methods such as Big Data and Exploratory Data Analysis Expanded coverage of digital media including internet surveys and survey data collection by tablet computers Greater focus on qualitative research methods and their strengths and weaknesses relative to quantitative methods Updated study items knowledge questions homework exercises and problem assignments for each chapter **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

Tests & Measurement for People Who (Think They) Hate Tests & Measurement Neil J. Salkind, 2017-04-18 Using his signature conversational writing style and straightforward presentation Neil J Salkind's best selling Tests Measurement for People Who Think They Hate Tests Measurement guides readers through an overview of categories of tests the design of tests the use of tests and some of the basic social political and legal issues that the process of testing involves The Third Edition includes a new chapter on item response theory new sections on neuropsychological testing new cartoons and additional end of chapter exercises Free online resources accompany the text to make teaching easier and provide students with the practice tools they need to master the material

The Baltimore Case Daniel J. Kevles, 2000 Kevles tells the complete story of David Baltimore winner of a Nobel Prize for medicine in 1975 in the field of immunology who got caught up in a legal battle over fraudulent scientific papers Photos line drawings

First Time Up Brock Dethier, 2008-09-30 First time up an insider's friendly question from 1960s counter culture perfectly captures the spirit of this book A short supportive practical guide for the first time college composition instructor the book is upbeat wise but friendly casual but knowledgeable like the voice that may have introduced you to certain other firsts With an experiential focus rather than a theoretical one First Time Up will be a strong addition to the newcomer's professional library and a great candidate for the TA practicum reading list Dethier author of The Composition Instructor's Survival Guide and From Dylan to Donne directly addresses the common headaches nightmares and epiphanies of composition teaching especially the ones that face the new teacher And since legions of new college composition teachers are either graduate instructors TAs or adjuncts without a formal background in composition studies he assumes these folks as his primary audience Dethier's voice is casual but it conveys concern humor experience and reassurance to the first timer He addresses all major areas that graduate instructors or new adjuncts in a writing program are sure to face from career anxiety to thoughts on grading and keeping good classroom records Dethier's own eclecticism is well represented here but he reviews with considerable deftness the

value of contemporary scholarship to first time writing instructors many of whom will be impatient with high theory Throughout the work he affirms a humane confident approach to teaching along with a true affection for college students and for teachers just learning to deal with them *Evolution of Translational Omics* Institute of Medicine,Board on Health Sciences Policy,Board on Health Care Services,Committee on the Review of Omics-Based Tests for Predicting Patient Outcomes in Clinical Trials,2012-09-13 Technologies collectively called omics enable simultaneous measurement of an enormous number of biomolecules for example genomics investigates thousands of DNA sequences and proteomics examines large numbers of proteins Scientists are using these technologies to develop innovative tests to detect disease and to predict a patient s likelihood of responding to specific drugs Following a recent case involving premature use of omics based tests in cancer clinical trials at Duke University the NCI requested that the IOM establish a committee to recommend ways to strengthen omics based test development and evaluation This report identifies best practices to enhance development evaluation and translation of omics based tests while simultaneously reinforcing steps to ensure that these tests are appropriately assessed for scientific validity before they are used to guide patient treatment in clinical trials **Research Ethics** Kenneth D. Pimple,2017-05-15 This volume includes more than 40 important articles on integrity and misconduct biomedical research the social and disciplinary contexts of science research in the social sciences the social responsibility of science and scientists and other core issues in research ethics A new introduction by the editor places these articles in their historical and conceptual context The volume provides a rich library of resources ideas and challenges in the ethics of research for any scholar concerned with such issues Geoethics Max Wyss,Silvia Peppoloni,2014-11-13 Edited by two experts in the area Geoethics Ethical Challenges and Case Studies in Earth Sciences addresses a range of topics surrounding the concept of ethics in geoscience making it an important reference for any Earth scientist with a growing concern for sustainable development and social responsibility This book will provide the reader with some obvious and some hidden information you need for understanding where experts have not served the public what more could have been done to reach and serve the public and the ethical issues surrounding the Earth Sciences from a global perspective Written by a global group of contributors with backgrounds ranging from philosopher to geo practitioner providing a balance of voices Includes case studies showing where experts have gone wrong and where key organizations have ignored facts wanting assessments favorable to their agendas Provides a much needed basis for discussion to guide scientists to consider their responsibilities and to improve communication with the public **Leadership in Science and Technology: A Reference Handbook** William Sims Bainbridge,2011-10-20 Tackling 100 key topics and providing case studies in the area of science and technology leadership this reference handbook is an essential resource for students in this area In Pursuit of Knowledge Deborah Rhode,2006-09-25 Although academics have never lacked for critics publications on the profession tend to be either popularized polemics which are engaging but misleading or scholarly analyses which are intellectually responsible but of

little interest to anyone but specialists *In Pursuit of Knowledge* offers an alternative a unique portrait of academic life that should appeal to both experts and a general audience Drawing on a wide range of disciplines including higher education history law sociology economics and literature the book focuses on the ways in which the pursuit of status has undermined the pursuit of knowledge Deborah Rhode argues that both individual scholars and institutions in higher education are caught in an arms race of reputation The result has been to skew priorities in scholarship erode commitments to teaching compromise efforts of public intellectuals and impede effectiveness in administration The book offers several solutions to counter these pervasive problems in our research institutions Rhode makes a case for increasing accountability and realigning reward systems She argues that what is needed is a greater sense of responsibility among universities and their faculties to narrow the gap between academic ideals and practices *In Pursuit of Knowledge* is meticulously researched and elegantly written It is also exceptionally entertaining in its use of quotations culled from over a hundred academic novels including works by Kingsley Amis Saul Bellow David Lodge and C P Snow For example from P G Wodehouse's *The Girl in Blue* The Agee woman told us for three quarters of an hour how she came to write her beastly book when a simple apology was all that was required The result is a highly readable but also deeply reflective analysis of the academic profession

Biotechnology Larry V. McIntire, Frederick B. Rudolph, 1996-03-22 Biotechnology the manipulation of the basic building blocks of life is rapidly advancing in laboratories around the world It has become routine to refer to DNA fingerprints and genetically engineered foods Yet the how to of biotechnology is only the beginning For every report of new therapies or better ways to produce food there is a Jurassic Park scenario to remind us of the potential pitfalls Biotechnology raises serious issues for scientists and nonscientists alike Who will decide what is safe Who will have access to our personal genetic information What are the risks when advanced science becomes big business In *Biotechnology* experts from science law industry and government explore a cross section of emerging issues This book offers straightforward explanations of basic science and provides insight into the serious social questions raised by these findings The discussions explore five key areas The state of the art in biotechnology including an overview of the genetic revolution the development of recombinant DNA technology and the possibilities for applying the new techniques Potential benefits to medicine and the environment including gene therapy the emerging area of tissue engineering and biomaterials and the development of therapeutic proteins Issues in technology transfer focusing on the sometimes controversial relationship between university research centers and industry Ethics behavior and values exploring the ethical issues that surround basic research and applications of new technology with a discussion of scientific misconduct and a penetrating look at the social impact of genetic discoveries Government's role including a comparison of U S European and Japanese policies on pharmaceutical and biotechnology development Biotechnology is here to stay and this volume adds immeasurably to understanding its multiple aspects and far reaching implications This book will be of interest to scientists and industry leaders involved in biotechnology issues and it

will be welcomed by the concerned lay reader Frederick B Rudolph Ph D is a professor of biochemistry and cell biology at Rice University and is executive director of the Institute of Biosciences and Bioengineering Larry V McIntire Ph D is the E D Butcher Professor of Chemical and Biomedical Engineering at Rice University and is chair of the Institute of Biosciences and Bioengineering *Engineering Ethics for a Globalized World* Colleen Murphy, Paolo Gardoni, Hassan Bashir, Charles E. Harris, Jr., Eyad Masad, 2015-06-22 This volume identifies discusses and addresses the wide array of ethical issues that have emerged for engineers due to the rise of a global economy To date there has been no systematic treatment of the particular challenges globalization poses for engineering ethics standards and education This volume concentrates on precisely this challenge Scholars and practitioners from diverse national and professional backgrounds discuss the ethical issues emerging from the inherent symbiotic relationship between the engineering profession and globalization Through their discussions a deeper and more complete understanding of the precise ways in which globalization impacts the formulation and justification of ethical standards in engineering as well as the curriculum and pedagogy of engineering ethics education emerges The world today is witnessing an unprecedented demand for engineers and other science and technology professionals with advanced degrees due to both the off shoring of western jobs and the rapid development of non Western countries The current flow of technology and professionals is from the West to the rest of the world Professional practices followed by Western or Western trained engineers are often based on presuppositions which can be in fundamental disagreement with the viewpoints of non Westerners A successful engineering solution cannot be simply technically sound but also must account for cultural social and religious constraints For these reasons existing Western standards cannot simply be exported to other countries Divided into two parts Part I of the volume provides an overview of particular dimensions of globalization and the criteria that an adequate engineering ethics framework must satisfy in a globalized world Part II of the volume considers pedagogical challenges and aims in engineering ethics education that is global in character

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