

David Suzuki
and Dave Robert Taylor

the **BIG**
PICTURE

reflections on science,
humanity, and a quickly
changing planet



Reflections On Big Science

Martin L. Perl



Reflections On Big Science:

Reflections on Big Science Alvin M. Weinberg, 1968 Alvin M Weinberg has played a key role in scientific developments of the 20th century In 1941 he joined the University of Chicago group that developed the first chain reactor As a member of this team he worked on the reactor that produced the plutonium that would ultimately be used for the bomb dropped on Nagasaki Japan He served as director of ORAU s Institute for Energy Analysis IEA which pioneered investigations of the greenhouse effect alternate energy sources and maximizing energy sources at minimum cost to the economy and the environment Throughout his career Weinberg has been a leading figure in the development of nuclear energy Among his accomplishments was the proposal to use pressurized water for nuclear submarine propulsion Weinberg has been recognized many times winning the Atoms for Peace Award the Harvey Prize the Heinrich Award and the Fermi Award He is a member of the National Academy of Sciences the National Academy of Engineering the American Academy of Arts and Sciences the American Philosophical Society and a Foreign Member of the Royal Netherlands Academy of Sciences In addition to his writings concerning scientific and administrative works he is also a prolific writer on the interaction between modern technology and society He has coined many phrases that have become part of our everyday language big science technological fix and faustian bargain are just a few examples May of his earlier essays are published in this book *Reflections on Big Science* These essays treat a number of acute or chronic problems and many prescribe remedies Included are considerations of the population expansion and the concomitant expansion of energy and information the new social structures built by the new technology the effects of the organization and financing of Big Science on the nature of scientific inquiry the potential contribution of the federal laboratories to science education and the role of the scientist which is distinct from and as vital as the role of the documentalist is closing the Information Gap *Bulletin of the Atomic Scientists* ,1968-05 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 Clock stimulates solutions for a safer world

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Reflections on Experimental Science Martin L. Perl, 1996 This is a collection of important lecture and original articles and commentaries by Martin Perl discoverer of the tau lepton and the third generation of elementary particles and this year s Nobel Prize winner This book contains a fascinating and realistic picture of experimental science based on the high energy physics research work carried out by him Using reprints of his articles with his commentaries the author presents the various aspects of experimental research in science the pleasures and risks of experimental work the pain and frustration with experiments that are useless or fail the dreaming about experiments that were not carried out the constant search for innovation and creativity in the work and the special joy of discovery The articles and commentaries range from the early days of bubble chambers and spark

chambers in the 1950 s to the author s present research experiments at an electron positron collider and a search for free quarks The book is for the general reader as well as the scientist *Millennial Biology: The National Science Foundation and American Biology, 1975-2005* Donald J. McGraw, 2021-01-25 National Science Foundation NSF is a unique federal agency because it supports scientific research financially but does not engage in scientific work itself Its history is known only in part because the NSF is a vibrant expanding and living entity that makes the final telling of its story impossible Much can be learned from its beginning as well as its component parts If the founding of the NSF in 1950 was couched in an era of physics especially atomic physics certainly by the end of the 20th century and the beginning of the 21st biology was and remains the queen of sciences for the predictable future This book highlights the elite status of America s biological sciences as they were funded affected and to a very real degree interactively guided by the NSF It examines important events in the earlier history of the Foundation because they play strongly upon the development of the various biology directorates Issues such as education applied research medical science the National Institutes of Health the beginnings of biotechnology and other matters are also discussed **History of Science in United States** Marc Rothenberg, 2012-10-12 This Encyclopedia examines all aspects of the history of science in the United States with a special emphasis placed on the historiography of science in America It can be used by students general readers scientists or anyone interested in the facts relating to the development of science in the United States Special emphasis is placed in the history of medicine and technology and on the relationship between science and technology and science and medicine Supersizing Science Niki Vermeulen, 2010 In recent years there has been a clear rise in scientific collaboration as well as in studies on the subject While most scholars examine disciplines traditionally known to be collaborative such as physics and space research this book focuses on biology It investigates the growing collaboration in the life sciences or the emergence of what is called big biology While the Human Genome Project is often presented as the first large scale research project in biology cooperation in the life sciences has a longer history A comparison between centralised big physics and big biology reveals how the latter has a networked structure which evolved in interaction with the integration of information and communication technologies By concentrating on the construction of these networks three contemporary large scale research collaborations are analysed the Census of Marine Life that aims to make an inventory of life in the oceans the Silicon Cell initiative that wants to design a replica of a cell in a computer and the VIRGO consortium which investigates host virus interaction to develop a new therapy against influenza This book demonstrates how the process of making science bigger or the supersizing of science transforms the ways in which science is organised while it also changes the work of scientists involved As such this has both scholarly and professional implications for the next generation of scientists The Neutron's Children Sean F. Johnston, 2012-04-26 The first nuclear engineers emerged from the Manhattan Project in the USA UK and Canada but remained hidden behind security for a further decade Cosseted and cloistered by their governments they worked to explore applications of atomic energy at a

handful of national labs This unique bottom up history traces how the identities of these unusually voiceless experts forming a uniquely state managed discipline were shaped in the context of pre war nuclear physics wartime industrial management post war politics and utopian energy programmes Even after their eventual emergence at universities and companies nuclear workers carried the enduring legacy of their origins Their shared experiences shaped not only their identities but our collective memories of the late twentieth century And as illustrated by the Fukushima accident seven decades after the Manhattan project began this book explains why they are still seen conflictingly as selfless heroes or as mistrusted guardians of a malevolent genie

Discerning Experts Michael Oppenheimer, Naomi Oreskes, Dale Jamieson, Keynyn Brysse, Jessica O'Reilly, Matthew Shindell, Milena Wazeck, 2019-03-07 Discerning Experts assesses the assessments that many governments rely on to help guide environmental policy and action Through their close look at environmental assessments involving acid rain ozone depletion and sea level rise the authors explore how experts deliberate and decide on the scientific facts about problems like climate change They also seek to understand how the scientists involved make the judgments they do how the organization and management of assessment activities affects those judgments and how expertise is identified and constructed Discerning Experts uncovers factors that can generate systematic bias and error and recommends how the process can be improved As the first study of the internal workings of large environmental assessments this book reveals their strengths and weaknesses and explains what assessments can and cannot be expected to contribute to public policy and the common good

Imperial Technoscience Amit Prasad, 2014-03-14 A study of science and technology practices that shows how even emergent aspects of research and development remain entangled with established hierarchies In the last four decades during which magnetic resonance imaging MRI has emerged as a cutting edge medical technology and a cultural icon technoscientific imaginaries and practices have undergone a profound change across the globe Shifting transnational geography of technoscientific innovations is making commonly deployed Euro West centric divides such as west versus non west or innovating north versus non innovating south increasingly untenable the world is indeed becoming flatter Nevertheless such dualist divides which are intimately tied to other dualist categories that have been used to describe scientific knowledge and practice continue to undergird analyses and imaginaries of transnational technoscience Imperial Technoscience puts into broad relief the ambivalent and contradictory folding of Euro west centrism with emergent features of technoscience It argues Euro West centric historicism and resulting over determinations not only hide the vibrant albeit hierarchical transnational histories of technoscience but also tell us little about shifting geography of technoscientific innovations The book utilizes a deconstructive empirical approach to explore entangled histories of MRI across disciplines physics chemistry medicine etc institutions university hospitals industry etc and nations United States Britain and India Entangled histories of MRI it shows better explain emergence and consolidation of particular technoscientific trajectories and shifts in transnational geography of science and technology e g centers and peripheries

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In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Reflections On Big Science**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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