



Uncertain Science ... Uncertain World

HENRY N. POLLACK

CAMBRIDGE

Uncertain Science Uncertain World

George J. Klir



Uncertain Science Uncertain World:

Uncertain Science ... Uncertain World Henry N. Pollack, 2005-06-23 Is the world warming due to the Greenhouse Effect Can nuclear weapon arsenals be relied upon without periodic testing Is the world running out of oil What action should be taken against an outbreak of foot and mouth or BSE Why can't scientists provide certain answers to these and many other questions The uncertainty of science is puzzling It arises when scientists have more than one answer to a problem or disagree amongst themselves In this engaging book Henry Pollack guides the reader through the maze of contradiction and uncertainty acquainting them with the ways that uncertainty arises in science how scientists accommodate and make use of uncertainty and how in the face of uncertainty they reach their conclusions Taking examples from recent science headlines and every day life **Uncertain Science Uncertain World** enables the reader to evaluate uncertainty from their own perspectives and find out more about how science actually works

Uncertain Science ... Uncertain World H. N. Pollack, 2014-05-14 Using science headlines and everyday examples this engaging book describes why science is uncertain for the general reader

Uncertain Knowledge Riki G. A. Dolby, R. G. A. Dolby, 2002-04-18 This book explores the image of science in the modern world

Uncertainty and Information George J. Klir, 2005-11-22 Deal with information and uncertainty properly and efficiently using tools emerging from generalized information theory **Uncertainty and Information Foundations of Generalized Information Theory** contains comprehensive and up to date coverage of results that have emerged from a research program begun by the author in the early 1990s under the name generalized information theory GIT This ongoing research program aims to develop a formal mathematical treatment of the interrelated concepts of uncertainty and information in all their varieties In GIT as in classical information theory uncertainty predictive retrodictive diagnostic prescriptive and the like is viewed as a manifestation of information deficiency while information is viewed as anything capable of reducing the uncertainty A broad conceptual framework for GIT is obtained by expanding the formalized language of classical set theory to include more expressive formalized languages based on fuzzy sets of various types and by expanding classical theory of additive measures to include more expressive non additive measures of various types This landmark book examines each of several theories for dealing with particular types of uncertainty at the following four levels Mathematical formalization of the conceived type of uncertainty Calculus for manipulating this particular type of uncertainty Justifiable ways of measuring the amount of uncertainty in any situation formalizable in the theory Methodological aspects of the theory With extensive use of examples and illustrations to clarify complex material and demonstrate practical applications generous historical and bibliographical notes end of chapter exercises to test readers new found knowledge glossaries and an Instructor's Manual this is an excellent graduate level textbook as well as an outstanding reference for researchers and practitioners who deal with the various problems involving uncertainty and information An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

Uncertainty: A Catalyst for Creativity,

Learning and Development Ronald A. Beghetto, Garrett J. Jaeger, 2022-07-18 This edited volume brings together a group of international researchers and theorists from various intellectual and analytic traditions to explore the role uncertainty plays in creativity learning and development Contributors to this volume draw on existing programs of research as well as introduce new and even speculative directions for research theory and practice Learning and life are filled with uncertainty Although the experience of uncertainty can cause emotional discomfort or cognitive rigidity uncertainty serves as a catalyst and condition for change In this way uncertainty represents a core facet in the interrelationship among creativity learning and development Considerations for both the benefits and potential costs of uncertainty will be addressed in this volume with an aim of understanding how uncertainty can be better understood in light of creativity learning and development Taken together this volume stands to contribute to our collective understanding of the role that uncertainty plays in learning and life and highlights how conceptualizing and studying uncertainty in new ways can promote positive and lasting change

Uncertainty and Risk Gabriele Bammer, Michael Smithson, 2012-05-04 This is a major and deeply thoughtful contribution to understanding uncertainty and risk Our world and its unprecedented challenges need such ways of thinking Much more than a set of contributions from different disciplines this book leads you to explore your own way of perceiving your own area of work An outstanding contribution that will stay on my shelves for many years Dr Neil T M Hamilton Director WWF International Arctic Programme This collection of essays provides a unique and fascinating overview of perspectives on uncertainty and risk across a wide variety of disciplines It is a valuable and accessible sourcebook for specialists and laypeople alike Professor Renate Schubert Head of the Institute for Environmental Decisions and Chair of Economics at the Swiss Federal Institute of Technology This comprehensive collection of disciplinary perspectives on uncertainty is a definitive guide to contemporary insights into this Achilles heel of modernity and the endemic hubris of institutional science in its role as public authority It gives firm foundations to the fundamental historic shift now underway in the world towards normalizing acceptance of the immanent condition of ignorance and of its practical corollaries contingency uncontrol and respect for difference Brian Wynne Professor of Science Studies Lancaster University Bammer and Smithson have assembled a fascinating important collection of papers on uncertainty and its management The integrative nature of Uncertainty and Risk makes it a landmark in the intellectual history of this vital cross disciplinary concept George Cvetkovich Director Center for Cross Cultural Research Western Washington University Uncertainty governs our lives From the unknowns of living with the risks of terrorism to developing policies on genetically modified foods or disaster planning for catastrophic climate change how we conceptualize evaluate and cope with uncertainty drives our actions and deployment of resources decisions and priorities In this thorough and wide ranging volume theoretical perspectives are drawn from art history complexity science economics futures history law philosophy physics psychology statistics and theology On a practical level uncertainty is examined in emergency management intelligence law enforcement music policy and politics Key

problems that are a subject of focus are environmental management communicable diseases and illicit drugs Opening and closing sections of the book provide major conceptual strands in uncertainty thinking and develop an integrated view of the nature of uncertainty uncertainty as a motivating or de motivating force and strategies for coping and managing under uncertainty *New Scientist and Science Journal*, 2003 **The American Journal of Sociology** Albion W. Small, Ellsworth Faris, Ernest Watson Burgess, 1923 Established in 1895 as the first U S scholarly journal in its field AJS remains a leading voice for analysis and research in the social sciences presenting work on the theory methods practice and history of sociology AJS also seeks the application of perspectives from other social sciences and publishes papers by psychologists anthropologists statisticians economists educators historians and political scientists *The New Republic* Herbert David Croly, 2003 **Public Understanding of Science**, 2000 An international journal of research in the public dimensions of science and technology *Biosafety First* Terje Traavik, 2007 The challenges for risk identification assessment and management posed by genetic engineering and genetically modified organisms are some of the most demanding issues facing many countries and societies today The evolving field of biosafety has developed in response to these challenges BIOSAFETY FIRST is a stimulating collection of the latest thinking concerning biosafety science It is a unique work as its approach to biosafety is holistic encompassing not only the scientific but also the socio economic cultural policy and regulatory spheres It does not claim to give all the answers but acknowledges the issues and points to the uncertainties and knowledge gaps that still need to be addressed Drawing on the new scientific field of gene ecology and advocating a precautionary approach this book provides a foundation on which countries can start to openly and responsibly appraise these new technologies and their products *Simulating International Cooperation Under Uncertainty* Curtis S Signorino, 1995 *The World's Best Essays, from the Earliest Period to the Present Time* David Josiah Brewer, Edward Archibald Allen, William Schuyler, 1900 **The Baptist Quarterly Review** John Ross Baumes, Robert Stuart MacArthur, Henry Clay Vedder, 1892 *Public Science in Liberal Democracy* Peter W. B. Phillips, Jene M. Porter, 2007 Regardless of whether science is practised in industry the academy or government its conduct inescapably shapes and is shaped by democratic institutions Moreover the involvement of science with public policy formation and democracy has dramatically increased over the centuries and by all accounts will continue to do so In order to understand the functioning of science and democracy it is necessary to acknowledge the complex relationship between them Public Science in Liberal Democracy aims to do this from an interdisciplinary perspective presenting an array of substantively different positions on the issues that it explores The volume focuses on three major questions Can science retain independence and objectivity in the face of demands to meet commercial and public policy objectives In what ways is scientific discourse privileged in the formation of public policy How can scientific knowledge and methodology be made compatible with the interdisciplinarity and integration required of public policy formation and discourse Representing a wide range of viewpoints the contributors

to Public Science in Liberal Democracy come from Canada Europe the United States and Australia and include practising scientists as well as scholars working in the humanities and social sciences This timely and thought provoking collection makes an important contribution to the literature and will appeal to anyone interested in scientific research and its political and philosophical ramifications in democratic society *River Restoration* Stephen Darby,David Sear,2008-03-24 This text will be an invaluable reference for professionals working as hydrologists geomorphologists hydraulic engineers and groundwater agencies The book will also be of interest for undergraduate and postgraduate students taking relevant courses within Geography Environmental Science and Civil Engineering **BOOK JACKET** **General Introduction to Social Sciences** Albert Brisbane,1876 **Pedagogically Speaking** Felix Emmanuel Schelling,1929 **“A” New English Dictionary on Historical Principles** James Augustus Henry Murray,1926 **A Short History of Freethought** John Mackinnon Robertson,1915

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