

*Reason  
and Chance in  
Scientific  
Discovery*



R. TAYLOR

# Reason And Chance In Scientific Discovery

**Tao Wei**



## **Reason And Chance In Scientific Discovery:**

Reason and Chance in Scientific Discovery René Taton,1962

**Reason and Chance in Scientific Discovery.**

**Translated by A.J. Pomerans** Rene Taton,1962

**Chase, Chance, and Creativity** James H. Austin,2003-08-15 A

personal story of the ways in which persistence chance and creativity interact in biomedical research This first book by the author of Zen and the Brain examines the role of chance in the creative process James Austin tells a personal story of the ways in which persistence chance and creativity interact in biomedical research the conclusions he reaches shed light on the creative process in any field Austin shows how in his own investigations unpredictable events shaped the outcome of his research and brought about novel results He then goes beyond this story of serendipity to propose a new classification of the varieties of chance drawing on his own research and examples from the history of science including the famous accidents that led Fleming to the discovery of penicillin Finally he explores the nature of the creative process considering not only the environmental and neurophysiological correlates of creativity but also the role of intuition in both scientific discoveries and spiritual quests This updated MIT Press paperback edition includes a new introduction and recent material on medical research creativity and spirituality

**Gaither's Dictionary of Scientific Quotations** Carl C. Gaither,Alma E.

Cavazos-Gaither,2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither s Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

**Introduction to Science and the Scientific Method** John L. Campbell,2008-06-02 In this text John L Campbell

examines modern science its origins its method and its dovetailing with society and with religion Readers will learn that science is a general flexible and therefore versatile approach to knowing nature basic science and to knowing how to use nature applied science Introduction to Science and the Scientific Method is a straightforward and articulate new book that makes fascinating forays into the areas of philosophy logic mathematics society and religion

Chance Discoveries in Real World Decision Making Yukio Ohsawa,Shusaku Tsumoto,2006-12-13 For this book the editors invited contributions from

indispensable research areas relevant to chance discovery which has been defined as the discovery of events significant for making a decision and studied since 2000 The chapters contain contributions to identifying rare or hidden events and explaining their significance The methods presented in this book are based on the interaction of human machine and humans

living environment      **Model-Based Reasoning in Scientific Discovery** L. Magnani, N.J. Nersessian, Paul

Thagard, 2012-12-06 The volume is based on the papers that were presented at the International Conference Model Based Reasoning in Scientific Discovery MBR 98 held at the Collegio Ghislieri University of Pavia Pavia Italy in December 1998 The papers explore how scientific thinking uses models and explanatory reasoning to produce creative changes in theories and concepts The study of diagnostic visual spatial analogical and temporal reasoning has demonstrated that there are many ways of performing intelligent and creative reasoning that cannot be described with the help only of traditional notions of reasoning such as classical logic Traditional accounts of scientific reasoning have restricted the notion of reasoning primarily to deductive and inductive arguments Understanding the contribution of modeling practices to discovery and conceptual change in science requires expanding scientific reasoning to include complex forms of creative reasoning that are not always successful and can lead to incorrect solutions The study of these heuristic ways of reasoning is situated at the crossroads of philosophy artificial intelligence cognitive psychology and logic that is at the heart of cognitive science There are several key ingredients common to the various forms of model based reasoning to be considered in this book The models are intended as interpretations of target physical systems processes phenomena or situations The models are retrieved or constructed on the basis of potentially satisfying salient constraints of the target domain      **Model-Based Reasoning, Abductive Cognition, Creativity**

Emiliano Ippoliti, Lorenzo Magnani, Selene Arfini, 2024-11-20 This book discusses how scientific and other types of cognition make use of models abduction and explanatory reasoning in order to produce important innovative and possibly creative changes in theories and concepts Gathering revised contributions presented at the international conference on Model Based Reasoning MBR023 held on June 7-9 2023 in Rome Italy the book addresses various intertwined topics ranging from the epistemology and applications of models also concerning the problem of knowledge production and scientific methodology information visualization experimental methods and design to the analysis of their role in cognition decision making also with respect to social implications The problem of model based cognition is also illustrated taking advantage of recent results regarding problem solving abduction and logic paying attention to a critique of the dominant and received approaches to the aim of fostering new discussions and stimulate new ideas All in all the book provides researchers and graduate students in the fields of applied philosophy epistemology cognitive science and artificial intelligence alike with an authoritative snapshot of the latest theories and applications of model based reasoning      **Scientists as Writers**

James Harrison, 2014-05-09 In the endless debate about the Two Cultures no book until this attempted to provide a selection of scientific writing on specific themes to stimulate students of arts subjects into discussion and writing about the nature of science and its relationship with the rest of life This book is based on a selection of prose passages written by scientists about science supplemented by notes and a brief linking commentary Originally published in 1965 the passages were chosen to illustrate or comment on different aspects of eleven main themes ranging from surveys of changing ideas on the nature of the

universe and the material of which it was made to evolution past and future and the relation of science with religion and art Most of the extracts were from contemporary authors but there are passages by Aristotle Bacon Boyle Hooke Newton Dalton Faraday and Darwin At the end of the book there are suggestions for discussion to accompany each chapter to encourage the study of the use of language in consideration of the nature history and role of science Science and Its History Joseph Agassi,2008-09-16 Professor Joseph Agassi has published his Towards an Historiography of Science in 1963 It received many reviews by notable academics including Maurice Finocchiaro Charles Gillispie Thomas S Kuhn Geroge Mora Nicholas Rescher and L Pearce Williams It is still in use in many courses in the philosophy and history of science Here it appears in a revised and updated version with responses to these reviews and with many additional chapters some already classic others new They are all paradigms of the author s innovative way of writing fresh and engaging chapters in the history of the natural sciences Proceedings of the Technical Section British Paper and Board Makers' Association. Technical Section,1958 Science and Sensibility: Blaise Pascal ; John Stuart Mill ; Bertrand Russell ; Ludwig Wittgenstein ; The age of analysis ; Schrödinger, mind and matter ; The scientific attitude ; Causality and chance in modern physics ; Determinism and indeterminism ; Reason and chance in scientific discovery ; Blackstone for the proletariat ; Patterns of panic ; Physics and politics ; War or peace ; Atomic harvest ; The commendablest phrases ; A million years from now ; Mind under matter ; Quest for the mind ; The wandering albatross ; The foreseeable future ; Comets and their origins James Roy Newman,1961

**LSAT Logical Reasoning** Manhattan Prep,2020-03-03 Manhattan Prep s LSAT Logical Reasoning guide fully updated for the digital exam will teach you how to untangle Logical Reasoning problems confidently and efficiently Manhattan Prep s LSAT guides use officially released LSAT questions and are written by the company s instructors who have all scored a 172 or higher on the official LSAT we know how to earn a great score and we know how to teach you to do the same This guide will train you to approach LSAT logical reasoning problems as a 99th percentile test taker does Recognize and respond to every type of question Deconstruct the text to find the core argument or essential facts Spot and avoid trap answers Take advantage of the digital format to work quickly and strategically Each chapter in LSAT Logical Reasoning features drill sets made up of real LSAT questions to help you absorb and apply what you ve learned The extensive solutions walk you through every step needed to master Logical Reasoning including an in depth explanation of every answer choice correct and incorrect All Heal R M Shaw,R A Bowen,G E Paget,2014-05-20 All Heal contains a selection of the articles of more general interest that were published in The Proceedings of the Royal Society of Medicine since 1957 The editors have chosen no more than one paper from any individual author This book features 17 medical and social miscellany articles The topics covered by these papers include the evolution on teaching hospital physicians in Great Britain the relation between crime and the British penal system the conflict between drug control and therapeutic freedom and the academic and economic freedom of British universities This book will be of interest to persons dealing with studies on medical and social history of

Great Britain since 1957      **Serendipity Science** Samantha Copeland, Wendy Ross, Martin Sand, 2023-07-14 This volume brings together for the first time the diverse threads within the growing field of serendipity research to reflect both on the origins of this emerging field within different disciplines as well as its increasing influence as its own field with foundational texts and emerging practices The phenomenon of serendipity has been described in many ways since Horace Walpole initially coined the term in 1754 to categorize those discoveries that happen by both accidents and sagacity This book offers a sampling of perspectives from experts in serendipity research from organizational studies management theory information science and library studies psychology literature computer science social science ethics and the history and philosophy of science Considerations about the importance and role of serendipity are being raised now across science both empirical and theoretical as well as practice from art and innovation to leadership and governance with ever more eyes looking closer at its significance in human history and the likelihood it will play a key while unpredictable role in forming our future Serendipity Science represents an emerging and also important and potentially necessary field of study if we are to deal well as a society with our complex times and uncertain future      Groundbreaking Scientific Experiments, Inventions, and Discoveries of the 17th Century Michael Windelspecht, 2001-11-30 The 17th century was a time of transition for the study of science and mathematics The technological achievements of this time directly impacted both society and the future of science This reference resource explores the major scientific and mathematical milestones of this era and examines them from both their scientific and sociological perspectives Over fifty entries arranged alphabetically illustrate how this was a time marking the first wide spread application of experimentation and mathematics to the study of science an exciting time brought to life through this unique exploration Students will find not only the familiar names like Galileo and Newton who are well recognized for their contributions in science but they will also encounter the names of lesser known scientists and inventors who challenged long held doctrines and beliefs The contributions of the scientists mathematicians and inventors of the 17th century would have a significant impact on the course of science into modern times This impact is explored in detail to provide an understanding of how scientific study affects everyday life and how it evolves to provide a better understanding of our world      **Causalité Et Accidents de la Découverte Scientifique. Reason and Chance in Scientific Discovery ...** Translated by A.J. Pomerans René Taton, Arnold Julius POMERANS, 1957      **Abductive Cognition** Lorenzo Magnani, 2009-10-13 This volume explores abductive cognition an important but at least until the third quarter of the last century neglected topic in cognition It aims at increasing knowledge about creative and expert inferences      **Applied Mechanics Reviews** , 1948      *Collected Essays 1929 - 1968* ,

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