

Reason And Chance In Scientific Discovery

Samantha Copeland, Wendy Ross, Martin Sand

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 Scientific Discovery Aharon Kantorovich, 1993-07-01 Kantorovich analyzes the notion of discovery He views the process as inference and questions whether there is logic or method to discovery He provides an alternative perspective on scientific discovery that explains the difficulties in finding a satisfactory method of discovery Within the framework of evolutionary epistemology discovery is treated as a phenomenon in its own right having psychological and social dimensions Science is viewed as a continuation of the evolutionary process whereby creative discovery plays a role similar to blind mutation in biological evolution From this perspective serendipity and tinkering are key notions in understanding the creative process Chance Discoveries in Real World Decision Making Yukio Ohsawa, 2006-09-06 For this book the editors invited and called for 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 From respective research areas as artificial intelligence mathematics cognitive science medical science risk management methodologies for design and communication the invited and selected authors in this book present their particular approaches to chance discovery The chapters here show contributions to identifying rare or hidden events and explaining their significance predicting future trends communications for scenario development in marketing and design identification effects and side effects of medicines etc The methods presented in this book are based on the interaction of human machine and human's living environment rather than based purely automated predictions of the future This is a promising direction of computer supported decision of human in a radically changing environment Prematurity in Scientific Discovery Ernest B. Hook, 2002-10-02 In preparing this remarkable book Ernest Hook persuaded an eminent group of scientists historians sociologists and philosophers to focus on the problem why are some discoveries rejected at a particular time but later seen to be valid The interaction of these experts did not produce agreement on prematurity in science but something more valuable a collection of fascinating papers many of them based on new research and analysis which sometimes forced the author to revise a previously held opinion The book should be enthusiastically welcomed by all readers who are interested in how science works Stephen G Brush co author of Physics The Human Adventure From copernicus to Einstein and Beyond Prematurity and Scientific Discovery contains interesting and insightful papers by numerous well known scientists and scholars It will be of wide interest not only to science studies scholars but also to working scientists and to science literate general readers Thomas Nickles editor of Scientific Discovery Logic and Rationality

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 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 rea soning 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 de ductive and inductive arguments Understanding the contribution of model ing practices to discovery and conceptual change in science requires ex panding 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 philoso phy 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 in terpretations 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 Methods and Trchniques in Business Research, 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 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 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 Handbook of Global Science, Technology, and Innovation Daniele Archibugi, Andrea Filippetti, 2015-09-28 The Handbook of Global Science Technology and Innovation This unique Handbook provides an overview of the globalization of science technology and innovation including global trends in the way knowledge is produced and distributed the development of institutions and global policy It shows how technological change and innovation are shaped by the role of emerging countries in the generation of science and technological knowledge and transnational corporations and how reforms in intellectual property rights and world trade have been affected by the increasingly international flows of knowledge technology and innovation The book provides an in depth assessment of the themes and direction of science technology innovation and public policy in an increasingly globalized world With contributions from an international team of leading scholars this cutting edge reference work introduces readers to current debates about the role of science and technology in global society and the policy responses that shape its development Comprising 28 specially commissioned chapters the Handbook addresses major trends in global policy including a significant shift toward private scientific research the change in the distribution of science and technical knowledge and a heightened awareness among policymakers of the economic and technological impact of scientific activity Accessibly written it provides an invaluable one stop reference for students social researchers scientists and policymakers alike **Ready to Be Healed** William Berning, 2008-09-17 From opening the readers eyes to the deceitfulness of blind faith to untying the Gordian knot known as the battle of the sexes the first half of this highly readable and spiritually encouraging book tackles head on a series of false teachings being unwittingly propagated by many churches as biblical Christian beliefs Then the second half of the book explores the Way of Freedom for the Christian as God has

intended it It shows how disregard for true biblical teaching on spiritual laws leaves the genuine Christian bent down and enslaved to spiritual forces of curses castration and eternal condemnation all of which await those who try to impress God through their own righteousness Every chapter brings Gods Word rightly divided and rightly applied against common church teachings that have brought misery and pain into the Christian experience And every chapter brings the soothing cleansing balm of Gods Truth to every weary and heavy laden believer restoration for the soul of every genuine Christian who is Ready To Be Healed

Theoretical Issues in Psychology Sacha Bem, Huib Looren de Jong, 2006 This thoroughly revised edition of the classic textbook explores a wide range of problems in psychology philosophy cognitive and brains sciences identifying the major topics debates and controversies and presenting them in a balanced and accessible manner for students

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 Abductive Minds: Essays in Honor of Lorenzo Magnani - Volume 1 Selene Arfini, 2025-09-26 times and uncertain future This book the first of two volumes provides novel perspectives on the study of abduction by analyzing both Magnani s ample investigation of the subject and discussing its rising importance in today s epistemology and philosophy of science Notwithstanding the long history of the concept which has been studied since its analysis in Aristotle's Organon in the last fifty years it has known a resurgent interest in the epistemological literature since it is an ampliative inference deemed to be at the core of creative leaps and acts of discovery For these reasons different open questions still bother interested researchers which constraints affect abductive reasoning when a hypothesis is evaluated or selected Should we adopt a unified view on abduction or maintain a pluralistic perspective regarding its forms and functions What kinds of models can be used in abductive reasoning This last question in particular shows how the topics of the two parts of the volume are intrinsically connected and ensures they are of great importance to those interested in epistemology philosophy of science mathematical logic and AI Cognition and Chance Raymond S. Nickerson, 2004-06-24 Lack of ability to think

probabilistically makes one prone to a variety of irrational fears and vulnerable to scams designed to exploit probabilistic naivet impairs decision making under uncertainty facilitates the misinterpretation of statistical information and precludes critical evaluation of likelihood claims Cognition and Chance presents an overview of the information needed to avoid such pitfalls and to assess and respond to probabilistic situations in a rational way Dr Nickerson investigates such questions as how good individuals are at thinking probabilistically and how consistent their reasoning under uncertainty is with principles of mathematical statistics and probability theory. He reviews evidence that has been produced in researchers attempts to investigate these and similar types of guestions Seven conceptual chapters address such topics as probability chance randomness coincidences inverse probability paradoxes dilemmas and statistics The remaining five chapters focus on empirical studies of individuals abilities and limitations as probabilistic thinkers Topics include estimation and prediction perception of covariation choice under uncertainty and people as intuitive probabilists Cognition and Chance is intended to appeal to researchers and students in the areas of probability statistics psychology business economics decision theory and social dilemmas Proceedings of the Technical Section British Paper and Board Makers' Association. Technical Section.1958 The Semantic Conception of Theories and Scientific Realism Frederick Suppe, 1989 An authoritative account of the semantic conception of theories by one of its chief developers Suppe has always seen the semantic conception as providing a way of moving beyond empiricist philosophies of science This book provides the definitive account of his views not only on the issue of realism but also on a variety of other issues central to the philosophy of science Ronald N Giere author of Explaining Science A Cognitive Approach Science Books for a School Library Association for Science Education, 1968

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web grade 50 is used in general plate applications when the plate will be riveted bolted or welded grade 50 is a columbium vanadium steel that offers a minimum yield of 50 000 psi in addition astm a572 grade 50 is noted for

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web a572 grade 42 steel plate and 50 345 and 55 380 are best for riveted bolted or welded structures a572 grade 60 steel plate 65 450 is best for riveted or bolted construction of bridges or for riveted bolted or welded construction in other uses **a572 steel wikipedia** - May 30 2023

web astm a572 steel is a common high strength low alloy hsla structural steel used in the united states 1 a572 steel properties are specified by astm international standards 2 grades a572 steel has five different grades 42 50 55 60 and 65 2 each of these grades differ in their mechanical properties and chemical composition

a572 aisi astm uns worldwide equivalent grades steel - Apr 16 2022

web a572 usa aisi astm uns european eu en and wordwide steel equivalent grades these comparison table is only intended as an indication of the closest khown equivalent grades the source standarts should always be checked for the specific purpose for each material in case of doubt

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web it meets the requirements of both astm a 36 and astm a572 50 a 36 a572 50 s strength form ability and excellent welding properties make it suitable for a large variety of different applications a 36 a572 50 s yield strength is increased to 50 000 psi higher than that of a normal a 36

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web the astm a572 specification is the standard specification for high strength low alloy columbium vanadium structural steel for used in general construction and structural applications astm a572 includes five grades with specified minimum yield strengths of 42 50 55 60 and 65 ksi respectively

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web dec 31 2021 $\,$ 50 345 a 50 345 4 b 100 b all all all 55 380 55 380 2 1 Ú2 64 all all all all 60 415 a 60 415 2 1 Ú2 c 64 c 2 50 all all 65 450 65 450 2 50 2 50 all all a in the above tabulation grades 42 50 and 60 290 345 and 415 are the yield point levels most closely approximating a geometric progression patte rn

astm a572 steel grade 50 matweb - Apr 28 2023

web astm a572 steel grade 50 recently viewed materials available properties density typical of astm steel hardness brinell based on conversion from tensile strength hardness rockwell b based on conversion from tensile strength tensile strength ultimate tensile strength yield elongation at break in 200 mm elongation at break in 50 mm

datasheet for steel grades carbon steel a572 gr 50 - Dec 25 2022

web this page is mainly introduced the a572 gr 50 datasheet including chemical information mechanical properties physical properties mechanical properties heat treatment and micro structure etc it also contains the use of a572 gr 50 such as it is commonly used in bars sheet plates steel coils steel pipes forged and other materials

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specified minimum yield strengths of 42 50 55 60 and 65 ksi respectively a572 structural carbon hsla steel plate chapel steel - Jun 18 2022

web astm a 572 a high strength low alloy steel plate that is utilized in a variety of structural applications this specification is produced in grades 42 50 55 60 65 the grades representing the yield strength plates that are 4 and thicker are made to a 42 ksi yield although material can be modified to reach the 50 ksi min yield

mechanical properties of astm a572 grades 50 and 60 steels at - Nov 23 2022

web this study presents a detailed experimental study on the mechanical properties of astm a572 grade 50 gr 50 and grade 60 gr 60 steels at high temperatures in addition extensive literature data on the yield strength tensile strength and elastic modulus of mild steel ms high strength steel hss and very high strength steel vhss