

EINSTEIN'S LUCK

A black and white photograph of three men walking away from the camera on a paved path. The man in the center is older, with white hair, wearing a dark overcoat and trousers. He is flanked by two younger men in suits. They are walking towards a line of trees in the background. The path is made of large rectangular stones.

The Truth Behind
Some of the Greatest
Scientific Discoveries

JOHN WALLER

Einsteins Luck The Truth Behind Some Of The Greatest Scientific Discoveries

Roman Wölfel



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Einstein's Luck John Waller, 2002 Louis Pasteur suppressed data that didn't support the case he was making **A Theory of Everything (That Matters)** Alister McGrath, 2019 Einstein's revolutionary scientific ideas have transformed the world ushering in the nuclear age Is there any place for faith in such a world This volume is a must read for anyone who wants to understand the role of faith in a world where science and technology govern lives Einstein Gravity in a Nutshell A. Zee, 2013-05-05 An ideal introduction to Einstein's general theory of relativity This unique textbook provides an accessible introduction to Einstein's general theory of relativity a subject of breathtaking beauty and supreme importance in physics With his trademark blend of wit and incisiveness A Zee guides readers from the fundamentals of Newtonian mechanics to the most exciting frontiers of research today including de Sitter and anti de Sitter spacetimes Kaluza Klein theory and brane worlds Unlike other books on Einstein gravity this book emphasizes the action principle and group theory as guides in constructing physical theories Zee treats various topics in a spiral style that is easy on beginners and includes anecdotes from the history of physics that will appeal to students and experts alike He takes a friendly approach to the required mathematics yet does not shy away from more advanced mathematical topics such as differential forms The extensive discussion of black holes includes rotating and extremal black holes and Hawking radiation The ideal textbook for undergraduate and graduate students Einstein Gravity in a Nutshell also provides an essential resource for professional physicists and is accessible to anyone familiar with classical mechanics and electromagnetism It features numerous exercises as well as detailed appendices covering a multitude of topics not readily found elsewhere Provides an accessible introduction to Einstein's general theory of relativity Guides readers from Newtonian mechanics to the frontiers of modern research Emphasizes symmetry and the Einstein Hilbert action Covers topics not found in standard textbooks on Einstein gravity Includes interesting historical asides Features numerous exercises and detailed appendices Ideal for students physicists and scientifically minded lay readers Solutions manual available only to teachers *The Cult of Pythagoras* Alberto A. Martinez, 2012-10-30 In this follow up to his popular Science Secrets Alberto A Martinez discusses various popular myths from the history of mathematics that Pythagoras proved the hypotenuse theorem that Archimedes figured out how to test the purity of a gold crown while he was in a bathtub that the Golden Ratio is in nature and ancient architecture that the young Galois created group theory the night before the pistol duel that killed him and more Some stories are partly true others are entirely false but all show the power of invention in history Pythagoras emerges as a symbol of the urge to conjecture and fill in the gaps of history He has been credited with fundamental discoveries in mathematics and the sciences yet there is nearly no evidence that he really contributed anything to such fields at all This book asks how does history change when we subtract the many small exaggerations and interpolations that writers have added for over two thousand years The Cult of Pythagoras is also about invention in a positive sense Most people view mathematical breakthroughs as discoveries rather

than invention or creativity believing that mathematics describes a realm of eternal ideas But mathematicians have disagreed about what is possible and impossible about what counts as a proof and even about the results of certain operations Was there ever invention in the history of concepts such as zero negative numbers imaginary numbers quaternions infinity and infinitesimals Martinez inspects a wealth of primary sources in several languages over a span of many centuries By exploring disagreements and ambiguities in the history of the elements of mathematics The Cult of Pythagoras dispels myths that obscure the actual origins of mathematical concepts Martinez argues that an accurate history that analyzes myths reveals neglected aspects of mathematics that can encourage creativity in students and mathematicians **Einstein's Luck** John Waller,2002 The great biologist Louis Pasteur suppressed awkward data because it didn't support the case he was making Joseph Lister's famously clean hospital wards were actually notoriously dirty And Einstein's theory of general relativity was only confirmed in 1919 because an eminent British scientist massaged his figures Drawing on the latest scholarship John Waller shows that many of our greatest heroes of science were less than honest about their experimental data and not above using friends in high places to help get their ideas accepted He reveals how sheer effrontery and self promotion propelled certain scientists to the fore obscuring the vital contributions of others and the intrinsic merit of the ideas they overturned Einstein's Luck is an enthralling and entertaining book which resurrects the complex personalities bitter rivalries and intense human dramas that enliven and illuminate the history of science Book jacket **Science Secrets** Alberto A. Martinez,2011-05-29 Was Darwin really inspired by Galapagos finches Did Einstein's wife secretly contribute to his theories Did Franklin fly a kite in a thunderstorm Did a falling apple lead Newton to universal gravity Did Galileo drop objects from the Leaning Tower of Pisa Did Einstein really believe in God Science Secrets answers these questions and many others It is a unique study of how myths evolve in the history of science Some tales are partly true others are mostly false yet all illuminate the tension between the need to fairly describe the past and the natural desire to fill in the blanks Energetically narrated Science Secrets pits famous myths against extensive research from primary sources in order to accurately portray important episodes in the sciences Alberto A Martinez analyzes how such myths grow and rescues neglected facts that are more captivating than famous fictions Moreover he shows why opinions that were once secret and seemingly impossible are now scientifically compelling The book includes new findings related to the Copernican revolution alchemy Pythagoras young Einstein and other events and figures in the history of science **No Shadow of a Doubt** Daniel Kennefick,2021-03-09 On their 100th anniversary the story of the extraordinary scientific expeditions that ushered in the era of relativity In 1919 British scientists led extraordinary expeditions to Brazil and Africa to test Albert Einstein's revolutionary new theory of general relativity in what became the century's most celebrated scientific experiment The result ushered in a new era and made Einstein a global celebrity by confirming his dramatic prediction that the path of light rays would be bent by gravity Today Einstein's theory is scientific fact Yet the effort to weigh light by measuring the gravitational deflection of starlight

during the May 29 1919 solar eclipse has become clouded by myth and skepticism Could Arthur Eddington and Frank Dyson have gotten the results they claimed Did the pacifist Eddington falsify evidence to foster peace after a horrific war by validating the theory of a German antiwar campaigner In *No Shadow of a Doubt* Daniel Kennefick provides definitive answers by offering the most comprehensive and authoritative account of how expedition scientists overcame war bad weather and equipment problems to make the experiment a triumphant success The reader follows Eddington on his voyage to Africa through his letters home and delves with Dyson into how the complex experiment was accomplished through his notes Other characters include Howard Grubb the brilliant Irishman who made the instruments William Campbell the American astronomer who confirmed the result and Erwin Findlay Freundlich the German whose attempts to perform the test in Crimea were foiled by clouds and his arrest By chronicling the expeditions and their enormous impact in greater detail than ever before *No Shadow of a Doubt* reveals a story that is even richer and more exciting than previously known *The Pythagorean Theorem* Eli Maor,2019-11-19 An exploration of one of the most celebrated and well known theorems in mathematics By any measure the Pythagorean theorem is the most famous statement in all of mathematics In this book Eli Maor reveals the full story of this ubiquitous geometric theorem Although attributed to Pythagoras the theorem was known to the Babylonians more than a thousand years earlier Pythagoras may have been the first to prove it but his proof if indeed he had one is lost to us The theorem itself however is central to almost every branch of science pure or applied Maor brings to life many of the characters that played a role in its history providing a fascinating backdrop to perhaps our oldest enduring mathematical legacy *Creativity , Explaining Creativity* Robert Keith Sawyer,Danah Henriksen,2024 Genius Invention Talent And of course creativity These words describe the highest levels of human performance When we re engaged in the act of being creative we feel we are performing at the peak of our abilities Creative works give us insight and enrich our lives Creativity is part of what makes us human Our nearest relatives chimpanzees and other primates are often quite intelligent but never reach these high levels of performance **Great Displays for Your Library Step by Step** Susan P. Phillips,2015-03-21 Need ideas for library displays Here is an effective tool for designing and creating unique visual statements for library spaces It offers practical advice on utilizing everyday materials to create lively but economical presentations on all sorts of topics including authors world cultures traditions natural habitats and book genres Each of 46 featured displays includes a brief introduction to the subject an explanation of the genesis of the idea specifics regarding the information included and its source step by step instructions for assembly and ideas on how to customize the display to any available space Various display elements including unique color combinations interesting graphics balance emphasis and intended audience are also discussed A Month by Month Display Ideas appendix contains 77 additional nifty display ideas There is a very lengthy bibliography for further research and inspiration The book is thoroughly indexed *Creativity* Mike W. Martin,2008-09-15 Creativity explores the moral dimensions of creativity in science in a systematic and comprehensive

way A work of applied philosophy professional ethics and philosophy of science the book argues that scientific creativity often constitutes moral creativity the production of new and morally variable outcomes At the same time creative ambitions have a dark side that can lead to professional misconduct and harmful effects on society and the environment In this work creativity is generally defined as the development of new and valuable outcomes such as significant truths illuminating explanations or useful technological products Virtue and accompanying ideals are emphasized as a moral framework Intellectual virtues such as love of truth intellectual honesty and intellectual courage are themselves moral virtues Further moral topics concerning scientific creativity are explored serendipity and its connection with moral luck the paradoxes of moral motivation scientific misconduct arising from unbalanced creative ambitions forbidden knowledge creative teaching and leadership in science and the role of scientific creativity in good lives **Explaining Creativity** R. Keith

Sawyer,2012-01-12 Explaining Creativity is a comprehensive and authoritative overview of scientific studies on creativity and innovation Sawyer discusses not only arts like painting and writing but also science stage performance business innovation and creativity in everyday life Sawyer s approach is interdisciplinary In addition to examining psychological studies on creativity he draws on anthropologists research on creativity in non Western cultures sociologists research on the situations contexts and networks of creative activity and cognitive neuroscientists studies of the brain *Block by Block* ,2020 In this text the study of thermodynamics is manipulated against the normal course of study While students and academics will learn the concepts formulas and laws of thermodynamics they will also begin to understand the historical circumstance behind it all *The 2008 Randolph W. Thrower Symposium* ,2008 **Discover** ,2005 **Music by the Numbers** Eli

Maor,2020-03-10 How music has influenced mathematics physics and astronomy from ancient Greece to the twentieth century Library Journal ,2003 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately *American Scientist* ,1942 *Science and Scientists* Salem Press,2006 Documents the major breakthroughs in science from ancient times to the present with emphasis on the modern era

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