

# Haphazard Reality



## Half a Century of Science

Hendrik B.G. Casimir

# Haphazard Reality Half A Century Of Science

**Hinne Hettema**



## **Haphazard Reality Half A Century Of Science:**

*Haphazard Reality: Half a Century of Science* Hendrik B.G. Casimir, 2020-09-23 An outstanding scientific autobiography I remain impressed by its thoughtfulness and charm Steve K Lamoreaux American Journal of Physics A rich autobiography and history of atomic physics One is impressed by Casimir's memory for detail and zeal to find corroboration for the stories he tells And they are splendid tales Gamow's playful pranks in Copenhagen conversations with Lev Landau ardent revolutionary but no Marxist the tragedy of Ehrenfest who killed himself after shooting his hopelessly retarded son A charming idiosyncratic and meaningful account of events and personalities that changed physics Kirkus I myself read this book with fascination meeting old friends such as Gamow Landau Kramers and learning much more about them Also in the book are character sketches of those who made physics in the Netherlands such as Lorentz Kamerlingh Onnes and Ehrenfest the latter remembered with the greatest affection by the author Sir Nevill Mott Contemporary Physics The book contains a valuable entertaining and insightful collection of vignettes of many of the physicists Casimir has associated with Lorentz Ehrenfest Bohr Pauli with whom he studied Goudsmit Uhlenbeck Landau Gamov members of his own generation Kramers Gorter de Haas colleagues in Dutch academic circles Holst and Loupart colleagues at the Philips Laboratories Haphazard Reality also offers valuable insights into Dutch middle class culture and a rewarding overview of Dutch educational and scientific establishments Casimir is a master at deftly and sensitively conveying the psychological ambiance of his surroundings His description of the brilliant young theoretical physicists around Bohr in the early thirties conveys not only the style of doing physics but also delineates the issues addressed by outlining the content of their researches S S Schweber 4S Review Engaging reminiscences by an important Dutch physicist of conversations with the major contributors to 20th century physics An overly modest but otherwise balanced account of his own experiences and contributions from his early years at Leiden to his directorship of the Philips Laboratory The Antioch Review Haphazard Reality paints a vivid and insightful picture of the development of modern physics Steve K Lamoreaux Proceedings of the American Philosophical Society

Haphazard Reality Hendrik Brugt Gerhard Casimir, 1984 Casimir himself a famous physician studied and worked with three great physicists of the twentieth century Niels Bohr Wolfgang Pauli and Paul Ehrenfest In his autobiography the brilliant theoretician lets the reader witness the revolution that led to quantum physics whose influence on modern society turned out to be many times larger than the first atomic physicists could have imagined Through his involvement in the technical scientific and the business aspects of physics through management positions at Philips Research Laboratory and as a member of the Board of Directors of Philips Professor Casimir is the ideal person to place half a century of developments in physics within the context of important events in the world **Jan Tinbergen (1903-1994) and the Rise of Economic Expertise** Erwin Dekker, 2021-07 This biography presents the interaction between his socialist ideals scientific aspirations and work as an economic expert *Problem Solving in Organizations* Joan Ernst van Aken, Hans Berends, 2018-02-08 An

indispensable guide enabling business and management students to develop their professional competences in real organizational settings this new and fully updated edition of Problem Solving in Organizations equips the reader with the necessary toolkit to apply the theory to practical business problems By encouraging the reader to use the theory and showing them how to do so in a fuzzy ambiguous and politically charged real life organizational context this book offers a concise introduction to design oriented and theory informed problem solving in organizations In addition it gives support for designing the overall approach to a problem solving project as well as support for each of the steps of the problem solving cycle problem definition problem analysis solution design interventions and evaluation Problem Solving in Organizations is suitable for readers with a wide range of learning objectives including undergraduates and graduates studying business and management M B A students and professionals working in organizations

**Lise Meitner** Ruth Lewin Sime,1996 Traces the life of Jewish physicist Lise Meitner who had to flee Nazi Germany codiscovered nuclear fission with Otto Hahn and Fritz Strassmann but was denied recognition when the work received a Nobel Prize

**Quantum Chemistry: Classic Scientific Papers** Hinne Hettema,2000-03-24 Chemical physics is presently a very active field where theoretical computation and accurate experimentation have led to a host of exciting new results Among these are the possibility of state to state reactive scattering the insights in non adiabatic chemistry and from the computational perspective the use of explicitly correlated functions in quantum chemistry Many of these present day developments use ideas derivations and results that were obtained in the very early days of quantum theory in the 1920s and 1930s Much of this material is hard to study for readers not familiar with German This volume presents English translations of some of the most important papers The choice of material is made with the relevance to present day researchers in mind Included are seminal papers by M Born and J R Oppenheimer J von Neumann and E Wigner E A Hylleraas F London F Hund H A Kramers R de L Kronig and F H ckel among others

**Stalin and the Scientists** Simon Ings,2017-02-21 One of the finest most gripping surveys of the history of Russian science in the twentieth century Douglas Smith author of Former People The Final Days of the Russian Aristocracy Stalin and the Scientists tells the story of the many gifted scientists who worked in Russia from the years leading up to the revolution through the death of the Great Scientist himself Joseph Stalin It weaves together the stories of scientists politicians and ideologues into an intimate and sometimes horrifying portrait of a state determined to remake the world They often wreaked great harm Stalin was himself an amateur botanist and by falling under the sway of dangerous charlatans like Trofim Lysenko who denied the existence of genes and by relying on antiquated ideas of biology he not only destroyed the lives of hundreds of brilliant scientists he caused the death of millions through famine But from atomic physics to management theory and from radiation biology to neuroscience and psychology these Soviet experts also made breakthroughs that forever changed agriculture education and medicine A masterful book that deepens our understanding of Russian history Stalin and the Scientists is a great achievement of research and storytelling and a gripping look at what

happens when science falls prey to politics Longlisted for the Baillie Gifford Prize for Non Fiction in 2016 A New York Times Book Review Paperback Row selection Ings s research is impressive and his exposition of the science is lucid Filled with priceless nuggets and a cast of frauds crackpots and tyrants this is a lively and interesting book and utterly relevant today The New York Times Book Review A must read for understanding how the ideas of scientific knowledge and technology were distorted and subverted for decades across the Soviet Union The Washington Post **Problem Solving in Organizations** Joan van Aken,Hans Berends,Hans van der Bij,2012-06-21 This concise introduction to the methodology of problem solving in organizations is an indispensable guide to the design and execution of practical business improvement projects in real organizational settings The methodology is design oriented and theory informed It encourages students to use the theory gained in their disciplinary courses by showing them how to do so in a fuzzy ambiguous and politically charged real life organizational context The book provides an in depth discussion of the various aspects and steps of the process of business and organizational problem solving Rather than presenting the methodology as a recipe to be followed the authors demonstrate how to adapt the approach to specific situations and to be flexible in scheduling the work at the various steps in the process It will be indispensable to MBA and other students who venture outside the university walls to do real life fieldwork **Genius** James Gleick,2011-02-22 New York Times Bestseller This life story of the quirky physicist is a thorough and masterful portrait of one of the great minds of the century The New York Review of Books Raised in Depression era Rockaway Beach physicist Richard Feynman was irreverent eccentric and childishly enthusiastic a new kind of scientist in a field that was in its infancy His quick mastery of quantum mechanics earned him a place at Los Alamos working on the Manhattan Project under J Robert Oppenheimer where the giddy young man held his own among the nation s greatest minds There Feynman turned theory into practice culminating in the Trinity test on July 16 1945 when the Atomic Age was born He was only twenty seven And he was just getting started In this sweeping biography James Gleick captures the forceful personality of a great man integrating Feynman s work and life in a way that is accessible to laymen and fascinating for the scientists who follow in his footsteps **First You Build a Cloud** K. C. Cole,1999 Demystifying physics in a fascinating read First You Build a Cloud does for physics what the bestselling The Universe and the Teacup did for math **Planck** Brandon R. Brown,2015-05-01 In Planck Driven by Vision Broken by War Brandon R Brown interweaves the voices and writings of Planck his family and his contemporaries with many passages appearing in English for the first time to create a portrait of a groundbreaking physicist working in the midst of war **No Time to be Brief** Charles P. Enz,2010-05-06 This book retraces the life of the physicist Wolfgang Pauli analyses his scientific work and describes the evolution of his thinking Includes extended account of Pauli s correspondence with figures such as Einstein Bohr Heisenberg and C G Jung **The Curious History of Relativity** Jean Eisenstaedt,2018-06-05 Black holes may obliterate most things that come near them but they saved the theory of general relativity Einstein s theory was quickly accepted as the true theory of gravity after its

publication in 1915 but soon took a back seat in physics to quantum mechanics and languished for decades on the blackboards of mathematicians. Not until the existence of black holes by Stephen Hawking and Roger Penrose in the 1960s after Einstein's death was the theory revived. Almost one hundred years after general relativity replaced Newton's theory of gravitation, *The Curious History of Relativity* tells the story of both events surrounding general relativity and the techniques employed by Einstein and the relativists to construct, develop, and understand his almost impenetrable theory. Jean Eisenstaedt, one of the world's leading experts on the subject, also discusses the theory's place in the evolution of twentieth-century physics. He describes the main stages in the development of general relativity: its beginnings, its strange crossing of the desert during Einstein's lifetime while under heated criticism, and its new life from the 1960s on when it became vital to the understanding of black holes and the observation of exotic objects, and eventually to the discovery of the accelerating universe. We witness Einstein's construction of his theory as well as the work of his fascinated, discouraged, and enthusiastic colleagues: physicists, mathematicians, and astronomers. Written with flair, *The Curious History of Relativity* poses and answers the difficult questions raised by Einstein's magnificent intellectual feat.

*Millikan's School: A History of the California Institute of Technology* Judith Goodstein, 2020-10-19

In November 1891, wealthy former abolitionist and Chicago politician Amos Throop founded a thoroughly undistinguished small college in Pasadena, California, which he named after himself. Millikan's School is the history of this institution that stands today at the pinnacle of world academics with 300 full-time faculty, nearly 1,000 undergraduate, 1,250 graduate students, and 39 Caltech and alumni Nobel Prize recipients. Although Amos Throop, the name of the college was changed to Caltech in 1920, could not have realized the importance of geography, the fact that Pasadena lay at the foot of Mount Wilson was central to its success. Astronomer George Ellery Hale built his telescope there in 1902, the finest at that time in the world. Later, Hale joined the board of trustees of the struggling school and persuaded Arthur Amos Noyes, former president of MIT, and the nation's leading physical chemist to join him in Pasadena. The third member of Caltech's founding troika was renowned physicist Robert A. Millikan from the University of Chicago. The dedication of Caltech in 1920 and the proclamation of what it stood for in science and education set the stage for Millikan, who functioned as the school's president, to bring the best and the brightest from all over the world: Theodore von Kármán in aeronautics, Thomas Hunt Morgan in biology, Paul Sophus Epstein in physics, Beno Gutenberg in seismology, Linus Pauling in chemistry, to Pasadena, to work in an ever larger number of areas in science and technology. The book also covers the funding, planning, and construction of the 200-inch telescope on Palomar Mountain, Willy Fowler's work in nuclear astrophysics, and the wartime rocket experiments that grew into the Jet Propulsion Laboratory (JPL), today the world leader in deep space exploration. *Millikan's School* presents an interesting and thoroughly reliable account of the astonishing change over a period of a few years of a small technical school in Pasadena, California, into one of the world's leading scientific institutions. Linus Pauling

In *Millikan's School*, Judith Goodstein tells the remarkable story of the rise of Caltech. She details how Millikan aided

by Hale and Arthur Amos Noyes America's leading physical chemist and another of Hale's inspired acquisitions took a former trade school and forged from it a grandiose university among the orange groves It would be impossible while reading Goodstein's lively account not to be impressed by the energy drive and boundless enthusiasm of men like Millikan Hale and Noyes who had the bare faced audacity to set about building an institute to rival the cream of the universities of Europe and America Marcus Chown New Scientist Goodstein's story is first and foremost the tale of three men the astronomer George Ellery Hale the chemist Alfred Noyes and the physicist Robert Millikan It is the story of their attempts to transform an undistinguished little school founded in 1891 into a world class scientific establishment A useful book Tony Rothman Science In Millikan's School the story of Throop University's transformation into Caltech is told with precision Judith Goodstein's history offers a quick tour of the landmarks of science in the mid 20th Century and a glance at how pure science puts itself at the service of government commerce and the military Goodstein approaches her subject with a healthy sense of humor and an acute sense of academic politics She tells a wonderful story about how Caltech lost to Princeton in a bidding war over the services of Albert Einstein for example To her credit Goodstein asks the hard question What is the best way to do science Millikan's School offers enough hard data to enable us to come to our own conclusions Jonathan Kirsch Los Angeles Times A cleanly written scientifically well informed account of one of the world's foremost institutions for science and technology Ed Regis Nature Relying on archival material published secondary sources and interviews with institute scientists Goodstein presents a highly readable account of Caltech's beginnings at the turn of the century substantive informative and a good read Rebecca S Lowen Technology and Culture As a history of science this book is well crafted Orderly in its flow it is not only a tribute to Millikan but also places him within the development of physics as a field Andrew Rolle Southern California Quarterly A fascinating history that speaks to issues far larger than Cal Tech itself This well written and honest account witness the many cited instances of anti-Semitism in the scientific world is both a good read and a sobering reminder that big science and top schools are not brought by storks Carroll Pursell History of Education Quarterly The author focuses on the personalities and the research fields of the principal scientific figures The emphasis on personalities and capsule surveys of relevant scientific fields produce a book that can be apprehended by a wide audience Roger Geiger Isis This chronicle offers glimpses of the passion and drive that have motivated a roster of distinguished scientists Publishers Weekly A lively tale Goodstein's individual profiles are lean and candid her background on subjects as diverse as nuclear astrophysics seismology aeronautical design quantum mechanics and rocket fuel are crisp and understandable With a light style and meticulous documentation Goodstein has produced a tale worthy of her subject Marshall Robinson Foundation News A distinguished and uniquely American institution has found its chronicler and its chronicle in Judith Goodstein's thorough but compact story of Millikan's School The emergence of Caltech as a powerhouse of science and engineering and a makeweight in the technological advancement of 20th century industry is both beautifully and reliably presented Harry Woolf Institute for

Advanced Study Princeton University

**45 Years with Philips: An Industrialist's Life** Frederik Philips, 2020-12-22

Frederik Philips is the son and nephew of the two brothers who in 1912 turned a family firm founded in 1891 into Philips NV which then grew in two generations from a small light bulb manufacturer to a worldwide company employing 380 000 people in 70 countries In this first person account Frederik Philips tells the story of his growing responsibilities in the company from a first job as a plant engineer to his difficult years during World War II when as one of four Board members of the company he dealt with German Nazi appointed administrators before having to go into hiding and until the years 1961 1971 when he rose to the helm of the whole company It is to be hoped that industry itself will learn something from his views on its powers and more particularly its responsibilities The Times London Philips believes that the success of a company depends not on structure or organisation but on the attitudes of the people who work in it As for the future Philips is optimistic about the ability of his company to continue to play its part in bringing prosperity to the world the primary objective remains the same that Philips must be part of the cure not of the disease in the world Financial Times London Clearly this book is as much a corporate history as it is the story of one man s life it is readable often insightful and sometimes exciting as we came to grasp the impact of one man s leadership on a major industrial corporation s struggle to survive a horrible war and its spectacular growth in peacetime Stephen D Bodayla The Business History Review

**The Master of Light: A Biography of Albert A. Michelson** Dorothy Michelson Livingston, 2021-01-14 In this biography of Albert A Michelson 1852 1931 his daughter shares personal reminiscences describes her father s family life two wives six children and a strong temperament and follows Michelson from his birth in Poland to Jewish parents to the United States where his parents brought him at the age of three settling in a gold rush town in Nevada and then in San Francisco Michelson graduated from the US Naval Academy in 1873 studied in Europe taught at Clark University and was head of the department of physics at the University of Chicago from 1894 to 1929 Michelson s passion was the accurate measurement of the speed of light In his first experiment he found it to be 186 320 miles per second which remained the best value available for a generation until Michelson himself bettered it He also invented the interferometer to measure distances using the length of light waves he measured the meter using the wavelength of cadmium light for the International Bureau of Weights and Measures in Paris and he used light interference to determine the size of stars With E W Morley he showed that the absolute motion of the earth through the ether is not measurable contributing to the development of the theory of relativity The first American to receive a Nobel prize in science Michelson received the Nobel prize in physics in 1907 for his optical precision instruments and for the spectroscopic and metrological investigations he made with them This work of a devoted daughter who is not herself a scientist catches the humanity of a complex brilliant man through anecdotes and informed detail The New York Times From personal recollection from much reading and from interviews Mrs Livingston has written a well organized scientific biography of her father In this book the author has attempted not only to discuss his scientific achievements but also to portray Michelson the man his

personality and character strengths and foibles He was dedicated but demanding and could be arrogant strict and severe This book portrays Michelson not as a legend but as a real believable person John N Howard Science A beautiful family portrait of Albert Abraham Michelson America's first Nobel laureate for science This biography is more than an intellectual exercise more than merely of academic or scientific or historical interest It is almost a religious work that begins with a quest for my father and ends with a postscript on Michelson's honors and continuing influence an intelligently organized emotionally motivated intellectually controlled search for meaning in the life and works of a great man of science Michelson's youngest daughter by his second marriage has presented a sensitive artful honest and superbly readable portrait of her father which paints the full life personal relations and human figure of Michelson in a form that is a worthy monument to his memory We learn to know much more intimately where Michelson originated how he matured who recognized and helped him what personal influences shaped his life when and where his own exertions were influential in shaping the life of physics in the United States and the world the author has been remarkably judicious and meticulous in handling her material Loyd S Swenson Jr Isis A non physicist herself the author has relied heavily on physicists who were familiar with her father's work and with the field of optics in general as well as archivists historians of science writers and editors Thus this thorough biography is the fortunate combination of the efforts of many people resulting in a valuable reference work as well as a very readable story about one of America's greatest scientists Its merit lies in the masterful way the author has melded voluminous information from many sources into a sensitive and realistic portrait of Michelson showing him as a very real person with strengths and weaknesses and showing his relation to scientists and the science of his period It is a book well written and well worth reading by physicists and non physicists alike Jean M Bennett Physics Today Mrs Livingston Michelson's last child by his second wife is as she says neither a physicist nor a writer Her book nonetheless has something for both the general reader and the specialist The former will find an interesting and even adventurous life the latter some gems from unpublished correspondence J L Heilbron The British Journal for the History of Science The biography is a well researched accurate and reliable work enhanced by the author's invaluable first hand experience with the subject Michelson's achievements are set against his personal life including his family relationships to other scientists and the struggles which inevitably develop in establishing a college science department George T Ladd The Science Teacher This excellent biography by Michelson's youngest daughter is a judicious mixture of anecdotes and details of the scientific achievements Dorothy Livingston is to be congratulated on this very readable and informative biography of her talented father W W Watson American Scientist An admirable biography of Michelson the man most fascinating David R Topper Technology and Culture

**Explorer of the Universe: A Biography of George Ellery Hale** Helen Wright, 2021-03-18 George Ellery Hale 1868 1938 is the subject of this impressive biography Wright charts Hale's steady progress towards leadership in the nascent field of astrophysics from his childhood experiments at home in Chicago through student days at MIT to his first observatory at

Kenwood all of which demonstrate his passion for unravelling the secrets of nature through the then new medium of spectroscopy This enthusiasm led him into contact with most of his peers both in America and beyond Lockyer Huggins Pickering Rowland and many more many of whom remained close associates and correspondents for years after Probably this sense of community made Hale so active in the organization of science including the formation of the AAS American Astronomical Society the IAU International Astronomical Union and ICSU International Council of Scientific Unions It also gave him the contacts to give the Astrophysical Journal such a good start in 1895 Perhaps the greatest debt we owe Hale is for his relentless drive towards the creation of ever bigger and better facilities starting with the still unsurpassed Yerkes refractor continuing with the solar telescopes on Mt Wilson and then the 60 and 100 inch telescopes on the same peak and concluding with the 200 inch at Mt Palomar Scientifically Hale's lifelong affair with the Sun brought him success in the detection of magnetic fields and early studies of surface activity by means of the spectroheliograph he developed and for which he was duly feted and the frustrations of trying to record the corona But these were early successes and as astropolitics and finance took an ever increasing share of his time he was able to contribute less than he would have liked Part of the problem was the illness with both physical and mental symptoms which progressively plagued the life of this hyperactive polymath it is sad to note his decline which prevented him playing a fuller part in the creation of what was to become his memorial this biography is something of a classic on one of astronomy's giants David Strickland The Observatory This important biography is well written and is highly recommended A E Covington Journal of the Royal Astronomical Society of Canada An outstanding biography of this most remarkable man Helen Wright has done a superb job of tracing Hale's development not only of new and powerful instruments and of his important discoveries of sunspot magnetic fields and the law of reversing polarities but also of the embryonic state of American science in the early days of this century an authoritative biography of one of the most influential men of science this country has produced The book will bring to contemporary scientists and historians the story of this unique astronomer whose life is of such special interest to the Caltech community Allan Sandage Caltech Magazine formerly Engineering and Science Helen Wright gives a detailed account of the life and almost frantic activities of this remarkable scientific leader In summarizing astrophysical events of the years 1880 to 1950 Wright has provided a useful and fascinating account of scientific development that led to the preeminence of the United States Thornton Page Science In writing the story of Hale's origins career and bequest to posterity Helen Wright has richly served her fellow astronomers No one else could have done so well Her account preserves an admirable balance in presenting Hale not only as a doer but also as a dreamer Miss Wright's excellent biography covers the highlights of his career Miss Wright's book is highly authentic Harlow Shapley Scientific American Published under license from Springer Science Business Media LLC part of Springer Nature

**80 Years of Research at the Philips Natuurkundig Laboratorium (1914-1994)** Jan Korsten, Marc Vries, 2025-10-01 Histories of major industrial research

laboratories are an essential contribution to the history of technology This book offers a description of the way one of such laboratories has changed its ambitions and activities in the course of time In the 80 year period that is described here the Philips Natuurkundig Laboratorium has played different roles for the Philips company today one of the world s largest electronics company which was founded in 1891 in the Netherlands The history of this laboratory is described in three main periods each characterized by its goals available means organizational structures research culture and external relations For each period the general story line is alternated by case study descriptions The Philips Natuurkundig Laboratorium was founded in 1914 The term Natuurkundig in English of physics indicated that the task of the new laboratory was to conduct research of physics Initially this research was related to light bulbs At that time the Philips company led by the two Philips brothers Anton and Gerard was primarily a light bulb producing company Soon the Nat Lab this is the commonly used abbreviation of the full name became the main source of inventions that would support the company in extending its product portfolio In the course of time the goal of the lab s activities shifted in response to changes in its context both within the Philips company and in a broader national and international context Today the Philips Natuurkundig laboratorium is part of a worldwide research organization Philips Research that generates options for new and improved products and processes and produces important patents in those electronics markets in which the company is active It is still one of the world s major private research organizations A key characteristic is the wide range of disciplines that are represented from electrical engineering and physics to chemistry mathematics mechanics information technology and software

**Sabotage** Neal Bascomb, 2016-05-31 This richly detailed nonfiction account of Norwegians who spied for the British and organized resistance against the Nazis unfolds like a spy thriller Library Journal The invasion begins at night with German cruisers slipping into the harbor and soon the Nazis occupy all of Norway They station soldiers throughout the country They institute martial rule And at Vemork an industrial fortress high above a dizzying gorge they gain access to an essential ingredient for the weapon that could end World War II Hitler s very own nuclear bomb When the Allies discover the plans for the bomb they agree Vemork must be destroyed But after a British operation fails to stop the Nazis deadly designs the task falls to a band of young Norwegian commandos Armed with little more than skis explosives and great courage they will survive months in the snowy wilderness elude a huge manhunt and execute two dangerous missions The result The greatest act of sabotage in all of World War II A strong choice for students of history or science This title is easy to recommend to those who enjoy nonfiction and to thriller fans interested in true tales of heroism School Library Journal Riveting Publishers Weekly A rich well paced narrative Kirkus Reviews

**The Spiral Web on the Nature of Coincidence** Paul Lester, 2000-06 Our lives are composed of coincidences that constantly shape us Most of the time we never learn of a coincidence that influences our life You only need to consider all the possible events since the creation of time that have occurred in your life and mine that make it possible for you to be reading these words and you have a sense of how many coincidences there are Of the ones we do

discover most are curious synchronistic or serendipitous oddities that might make us giggle and tingle but that's about all. But a few are nothing short of miraculous and contain the power to drastically change the direction and content of our lives. Through matter of fact introductory chapters describing how to notice and control the coincidences you notice throughout your life to a series of short stories that demonstrate the coincidences that drastically altered the author's life, this book offers a theory of coincidence that is both spiritual and practical.

**AUTHOR BIO** Paul Martin Lester Ph.D. is a Professor of Communications at California State University Fullerton and author or editor of seven books. When not teaching in California, he lives on a mountain in Montana with two golden retrievers, Pirit and Oriel, a black cat, Ucky, his daughter Allison, and his soulmate Denison.

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## **Haphazard Reality Half A Century Of Science Introduction**

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