



NUCLEAR FORCES

THE MAKING OF THE PHYSICIST
HANS BETHE

Silvan S. Schweber

Nuclear Forces The Making Of The Physicist Hans Bethe

Willis L. Shirk



Nuclear Forces The Making Of The Physicist Hans Bethe:

Nuclear Forces Silvan S. Schweber, 2012-06-18 On the fiftieth anniversary of Hiroshima Nobel winning physicist Hans Bethe called on his fellow scientists to stop working on weapons of mass destruction What drove Bethe the head of Theoretical Physics at Los Alamos during the Manhattan Project to renounce the weaponry he had once worked so tirelessly to create That is one of the questions answered by *Nuclear Forces* a riveting biography of Bethe's early life and development as both a scientist and a man of principle As Silvan Schweber follows Bethe from his childhood in Germany to laboratories in Italy and England and on to Cornell University he shows how these differing environments were reflected in the kind of physics Bethe produced Many of the young quantum physicists in the 1930s including Bethe had Jewish roots and Schweber considers how Liberal Judaism in Germany helps explain their remarkable contributions A portrait emerges of a man whose strategy for staying on top of a deeply hierarchical field was to tackle only those problems he knew he could solve Bethe's emotional maturation was shaped by his father and by two women of Jewish background his overly possessive mother and his wife who would later serve as an ethical touchstone during the turbulent years he spent designing nuclear bombs Situating Bethe in the context of the various communities where he worked Schweber provides a full picture of prewar developments in physics that changed the modern world and of a scientist shaped by the unprecedented moral dilemmas those developments in turn created

Hermann Haken und die Anfangsjahre der Synergetik Bernd Kröger, 2013 Der Stuttgarter Physiker und Mathematiker Hermann Haken geb 1927 Mitglied des Ordens Pour le Merite ist einer der Vater der quantenmechanischen Lasertheorie und der Begründer der Synergetik Diese Biographie zeichnet den wissenschaftlichen Werdegang Hermann Hakens in den ersten funfunddreissig Jahren seines Wirkens nach Seine Jugend und Ausbildungsjahre sowie die Darstellung des Wettlaufs zur Lasertheorie zwischen der sog Stuttgarter Schule und amerikanischen Forschern bilden den Auftakt des Buches Mit der Synergetik einer umfassenden Theorie der Selbstorganisation konnte Haken dann erklären wie in energetisch offenen Systemen ohne äussere Einwirkungen aus Unordnung Ordnung entsteht Die Synergetik erwies sich als Schlüssel für die Erklärung selbstorganisatorischer Prozesse nicht nur in Physik Chemie und Biologie sondern auch in Medizin Ökologie Soziologie und vor allem in der Psychologie Synergetik berührt die Gebiete der nichtlinearen Prozesse der Komplexität und der Chaostheorie Unter den Anhängen finden sich die fast 600 Arbeiten umfassende Bibliographie Hermann Hakens und ein Verzeichnis seiner Schüler

George Placzek: A Nuclear Physicist's Odyssey Ales Gottvald, Misha Shifman, 2018-05-30 This book presents the first detailed biography of George Placzek an outstanding physicist a participant in the Manhattan Project who stood at the very inception of nuclear physics and the subsequent development of the nuclear bomb in the course of the WWII In the 1930s George Placzek was known as an adventurous person with a sharp sense of humor a tireless generator of novel physics ideas which he generously shared with his colleagues Born in Brno now Czech Republic into a wealthy Jewish family he lost all his relatives to Holocaust casting a tragic

shadow on his life Placzek's scientific career began in the late 1920s when the quantum revolution was almost over but nuclear physics was still at its infancy He established personal and scientific relations with the creators of quantum mechanics such as Heisenberg in Leipzig and Niels Bohr in Copenhagen In Rome he worked with Fermi and in Copenhagen he became a part of Bohr's nuclear physics team which dominated nuclear theory at that time The scope of Placzek's pilgrimage around world physics centers in the 1930s was unique among his colleagues In January 1939 George Placzek managed to emigrate from Europe to the US and became a part of the British Mission within the Manhattan Project His physical insights were instrumental in advancing from the basic discoveries on nuclear chain reactions to the Trinity experiment Hiroshima and Nagasaki This book is a unique compilation of a large number of previously unknown and unpublished documents from private and university archives police reports etc Placzek's correspondence with the leadership of the Hebrew University in 1934 the 1937 NKVD interrogation files of Konrad Weisselberg recollections of Ella Andriess as well as the Zurich Police report of 1956 detailing the circumstances of Placzek's death in a Zurich hotel are illuminating as they shed light on poorly known pages of his life

Revolutionäre im Interview Anke te Heesen, 2022-03-17 Heller als tausend Sonnen strahlte die neue Physik zu Anfang des 20. Jahrhunderts Forscher wie Niels Bohr Werner Heisenberg und James Franck revolutionierten unser Verständnis von Raum und Zeit und schrieben Wissenschaftsgeschichte Doch erst mitten im Kalten Krieg begann man diese Geschichte auch aufzuschreiben Sources for History of Quantum Physics unter diesem neuen Titel sollten die Erinnerungen aller damals noch lebenden Koryphäen der Physik versammelt werden Der noch unbekannte Wissenschaftshistoriker und Physiker Thomas S. Kuhn entwickelte dafür eine neue in der Geschichtsschreibung kaum angewandte Rekonstruktionsmethode die heute zum Standardrepertoire gehört das Forschungsinterview Anke te Heesen schildert erstmals die Geschichte dieses legendären Befragungsprojekts das nicht nur mit dem Problem rang wie man mit Verzweiflung Intuition und Gefühl in der Physik umgehen sollte sondern auch wie unpolitisch eine Wissenschaft im Schatten der Atombombe sein konnte Die berfällige Betrachtung einer bis heute wirkenden wissenschaftshistorischen Revolution und ein unverzichtbarer Beitrag zu Entstehung und Wirkkraft der Oral History

The Making of Modern Physics in Colonial India Somaditya Banerjee, 2020-05-14 This monograph offers a cultural history of the development of physics in India during the first half of the twentieth century focusing on Indian physicists Satyendranath Bose 1894-1974 Chandrasekhara Venkata Raman 1888-1970 and Meghnad Saha 1893-1956 The analytical category *bhadralok* physics is introduced to explore how it became possible for a highly successful brand of modern science to develop in a country that was still under colonial domination The term *Bhadralok* refers to the then emerging group of native intelligentsia who were identified by academic pursuits and manners Exploring the forms of life of this social group allows a better understanding of the specific character of Indian modernity that as exemplified by the work of *bhadralok* physicists combined modern science with indigenous knowledge in an original program of scientific research The three scientists achieved the most significant

scientific successes in the new revolutionary field of quantum physics with such internationally recognized accomplishments as the Saha ionization equation 1921 the famous Bose Einstein statistics 1924 and the Raman Effect 1928 the latter discovery having led to the first ever Nobel Prize awarded to a scientist from Asia This book analyzes the responses by Indian scientists to the radical concept of the light quantum and their further development of this approach outside the purview of European authorities The outlook of bhadralok physicists is characterized here as cosmopolitan nationalism which allows us to analyze how the group pursued modern science in conjunction with and as an instrument of Indian national liberation

A History of the Atomic Space Age and Its Implications for the Future Willis L. Shirk, 2018-02-12 The Atomic Space Age has been and continues to be an engine for future wealth creation Humanity stands on the verge of becoming an interplanetary species We know we are made of star stuff precisely because many of the isotopes in our bodies originated in the death throes of dying suns With the discovery of nuclear fission in 1938 mankind was for the first time able to glimpse both our distant past and our possible future As with the discovery of fire and agriculture thousands of years ago wind power hundreds of years ago and steam power and electricity in the nineteenth century we must now learn to tame this powerful new force locked within the heart of the atom Buckminster Fuller once observed that wealth is nothing more than energy compounded by ingenuity Since mass energy can never decrease and ingenuity will only increase there is no limit to the quantity of wealth that our species can and will create using nuclear space propulsion

Building The H Bomb: A Personal History Kenneth W Ford, 2015-03-25 In this engaging scientific memoir Kenneth Ford recounts the time when in his mid twenties he was a member of the team that designed and built the first hydrogen bomb He worked with and relaxed with scientific giants of that time such as Edward Teller Enrico Fermi Stan Ulam John von Neumann and John Wheeler and here offers illuminating insights into the personalities the strengths and the quirks of these men Well known for his ability to explain physics to nonspecialists Ford also brings to life the physics of fission and fusion and provides a brief history of nuclear science from the discovery of radioactivity in 1896 to the ten megaton explosion of Mike that obliterated a Pacific Island in 1952 Ford worked at both Los Alamos and Princeton's Project Matterhorn and brings out Matterhorn's major but previously unheralded contribution to the development of the H bomb Outside the lab he drove a battered Chevrolet around New Mexico a bantam motorcycle across the country and a British roadster around New Jersey Part of the charm of Ford's book is the way in which he leavens his well researched descriptions of the scientific work with brief tales of his life away from weapons

The Pope of Physics Gino Segrè, Bettina Hoerlin, 2016-10-18 One of Booklist's Top 10 Science Books of the Year A superb biography A definite study of Fermi's life and work The Wall Street Journal A Bloomberg Best Book of the Year A Finalist for Physics World's Book of the Year A New York Times Book Review Editor's Choice Nobel Prize winner Enrico Fermi is unquestionably among the world's greatest physicists the most famous Italian scientist since Galileo Called the Pope by his peers he was regarded as infallible in his instincts and research His discoveries changed our world they led to weapons of mass

destruction and conversely to life saving medical interventions This unassuming man struggled with issues relevant today such as the threat of nuclear annihilation and the relationship of science to politics Fleeing fascism and anti-Semitism Fermi became a leading figure in America's most secret project building the atomic bomb The last physicist who mastered all branches of the discipline Fermi was a rare mixture of theorist and experimentalist His rich legacy encompasses key advances in fields as diverse as cosmic rays nuclear technology and early computers The Pope of Physics by Gino Segrè and Bettina Hoerlin is an engaging portrait of a man with boundless curiosity who delighted in his work and an entertaining and accessible biography of a scientist who deserves to be better understood Publishers Weekly starred review Intimate often charming stories of the famed physicist's personal life a book that's both intelligent and extremely engaging The Washington Post

Doing Physics Martin H. Krieger, 2012-11-19 The author of *Doing Mathematics* explores the concepts of physics by demonstrating how physicists think and approach their work *Doing Physics* makes concepts of physics easier to grasp by relating them to everyday knowledge Addressing some of the models and metaphors that physicists use to explain the physical world Martin H. Krieger describes the conceptual world of physics by means of analogies to economics anthropology theater carpentry mechanical systems and machine tool design Krieger explains the interaction of elementary particles by referring to the theory of kinship who can marry whom is similar to what can interact with what Likewise the description of physical situations in terms of interdependent particles and fields is analogous to the design of a factory with its division of labor among specialists For this new edition Krieger has revised the text and added a chapter on the role of mathematics and formal models in physics Krieger excellently tells those in our human society outside the physics world how physicists think plan and go about understanding nature Choice

Neutrino Hunters Ray Jayawardhana, 2024-07-02 *Neutrino Hunters* paints a vivid portrait of this new astronomy for the twenty-first century and the fascinating scientists who put it into place Marcia Bartusiak author of *The Day We Found the Universe* Winner of the Canadian Science Writers Association Science in Society Book Award One of the Best Physics Books of 2013 Cocktail Party Physics Blog Scientific American For more than eighty years adventurous minds from around the world have been chasing neutrinos incredibly small bits of matter that pass through our bodies every second by the trillions In *Neutrino Hunters* the renowned astrophysicist and award-winning writer Ray Jayawardhana takes us on a thrilling journey into the shadowy world of neutrinos and the colorful lives of those who seek them Demystifying particle science along the way Jayawardhana tells a detective story with cosmic implications interweaving tales of the sharp-witted theorist Wolfgang Pauli the troubled genius Ettore Majorana the harbinger of the atomic age Enrico Fermi the notorious Cold War defector Bruno Pontecorvo and the dynamic dream team of Marie and Pierre Curie Then there are the scientists of today who have caught the neutrino bug and whose experimental investigations stretch from a working nickel mine in Ontario to a long tunnel through a mountain in central Italy from a nuclear waste site in New Mexico to a bay on the South China Sea and from Olympic-size pools deep underground to a gigantic cube of Antarctic ice called naturally

IceCube As Jayawardhana recounts a captivating saga of scientific discovery and celebrates a glorious human quest he reveals why the next decade of neutrino hunting will redefine how we think about physics cosmology and our lives on Earth

The Oxford Handbook of the History of Quantum Interpretations Olival Freire Jr, Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, Osvaldo Pessoa Jr, 2022-03-07 Crucial to most research in physics as well as leading to the development of inventions such as the transistor and the laser quantum mechanics approaches its centenary with an impressive record However the field has also long been the subject of ongoing debates about the foundations and interpretation of the theory referred to as the quantum controversy This Oxford Handbook offers a historical overview of the contrasts which have been at the heart of quantum physics for the last 100 years Drawing on the wide ranging expertise of several contributors working across physics history and philosophy the handbook outlines the main theories and interpretations of quantum physics It goes on to tackle the key controversies surrounding the field touching on issues such as determinism realism locality classicality information measurements mathematical foundations and the links between quantum theory and gravity This engaging introduction is an essential guide for all those interested in the history of scientific controversies and history of quantum physics It also provides a fascinating examination of the potential of quantum physics to influence new discoveries and advances in fields such quantum information and computing *Arthur E. Haas - The Hidden Pioneer of Quantum Mechanics* Michael Wiescher, 2021-09-23 The book highlights the personal and scientific struggles of Arthur Erich Haas 1884 1941 an Austrian Physicist from a wealthy Jewish middle class family whose remarkable accomplishments in a politically hostile but scientifically rewarding environment deserve greater recognition Haas was a fellow student of both Lise Meitner and Erwin Schrödinger and was also one of the last doctoral students of Ludwig Boltzmann Following Boltzmann's suicide Haas was forced to submit a more independent doctoral thesis in which he postulated new approaches in early quantum theory actually introducing the idea of the Bohr radius before Niels Bohr It is the lost story of a trailblazer in the fields of quantum mechanics and cosmology a herald of nuclear energy and applications of modern science This biography of Haas is based on new and previously unpublished family records and archived material from the Vienna Academy of Science and the University of Notre Dame which the author has collected over many years From his analysis of the letters documents and photos that rested for nearly a century in family attics and academic archives Michael Wiescher provides a unique and detailed insight into the life of a gifted Jewish physicist during the first half of the twentieth century It also sheds light on the scientific developments and thinking of the time It appeals not only to historians and physicists but also general readers All appreciate the record of Haas interactions with many of the key figures who helped to found modern physics **Nuclear Cultures** Pramod K. Nayar, 2022-12-23 Nuclear Cultures Irradiated Subjects Aesthetics and Planetary Precarity aims to develop the field of nuclear humanities and the powerful ability of literary and cultural representations of science and catastrophe to shape the meaning of historic events Examining multiple discourses

and textual materials including fiction poetry biographies comics paintings documentary and photography this volume will illuminate the cultural ecological and social impact of nuclearization narratives Furthermore this text explores themes such as the cultures of atomic scientists the making of the bomb nuclear bombings and disasters nuclear aesthetics and art and the global mobilization against nuclearization Nuclear Cultures breaks new ground in the debates on the nuclear to foster the development of nuclear humanities its vocabulary and methodology

Enchantment Of Urania, The: 25 Centuries Of Exploration Of The Sky Massimo Capaccioli, 2024-03-19 Today we know much about the sky how stars are born how they live and die and how the universe as a whole evolves We have learned of the existence of another type of matter indifferent to light and yet decisive for the formation of galaxies and we have a hint of a dark energy that since the last 4 5 billion years has taken over the control of the cosmos We postulated and then discovered and even photographed black holes and listened to the faint rustle of the space time ripple produced when these monsters devour each other We reached these astonishing results recognized by a bunch of Nobel Prizes and filling every day the media with wonders for the eyes and the mind by the marriage of physics and astronomy that unified the Earth with the sky and then by the leap forward of science and technology in the Twentieth Century This rich heritage has ancient roots It was built by accumulating discoveries with errors observations with fantasies myths and superstitions with flashes of genius over a span of millennia since Homo sapiens turning his eyes to the immutable and perfect sky began to ask questions The book is a narration of the answers to these questions that had evolved over time a progressive path inserted in the general history with some second thoughts and many obstacles This is a saga of men and machines where greatness sometimes mixes with misery and passion often borders on sacrifice and even martyrdom Why should we know it Because our current knowledge is the result of these efforts and of the preconceptions that accompanied them The challenge has been to present this complex and intricate subject without resorting to any formulas so that it can be accessible to a wide audience of curious people including high school and university students and in general all those who normally keep themselves informed of scientific things A rich bibliography has also been added in the appendix for those wishing to learn more on one or more topics

The Scholar's Survival Manual Martin H. Krieger, 2013-10-22 The product of a lifetime of experience in American universities The Scholar's Survival Manual offers advice for students professors and administrators on how to get work done the path to becoming a professor getting tenured and making visible contributions to scholarship as well as serving on promotion and tenure committees Martin H Krieger covers a broad cross section of the academic experience from a graduate student's first foray into the job market through retirement Because advice is notoriously difficult to take and context matters a great deal Krieger has allowed his ideas to percolate through dozens of discussions Some of the advice is instrumental matters of expediency some demands our highest aspirations Readers may open the book at any place and begin reading for the more systematic there is a detailed table of contents Krieger's tone is direct an approach born of the knowledge that students and

professors too often ignore suggestions that would have prevented them from becoming academic roadkill This essential book will help readers sidestep a similar fate *Opposition to War* Mitchell K. Hall, 2018-01-04 How have Americans sought peaceful rather than destructive solutions to domestic and world conflict This two volume set documents peace and antiwar movements in the United States from the colonial era to the present Although national leaders often claim to be fighting to achieve peace the real peace seekers struggle against enormous resistance to their message and have often faced persecution for their efforts Despite a well established pattern of being involved in wars the United States also has a long tradition of citizens who made extensive efforts to build and maintain peaceful societies and prevent the destructive human and material costs of war Unarmed activists have most consistently upheld American values at home *Opposition to War* An Encyclopedia of U S Peace and Antiwar Movements investigates this historical tradition of resistance to involvement in armed conflict an especially important and relevant topic today as the nation has been mired in numerous military conflicts throughout most of the current century The book examines a largely misunderstood and underappreciated minority of Americans who have committed themselves to finding peaceful resolutions to domestic and international conflicts individuals who have proposed and conducted an array of practical and creative methods for peaceful change from the transformation of individual behavior to the development of international governing and legal systems for more than 250 years Readers will learn how individuals working alone or organized into societies of various size have steadfastly campaigned to stop war end the arms race eliminate the underlying causes of war and defend the civil liberties of Americans when wartime nationalism most threatens them **Quantum Legacies** David Kaiser, 2020-04-08 Engrossing Leave s us with a richer picture of physics as a lived activity Los Angeles Review of Books In *Quantum Legacies* David Kaiser introduces readers to iconic episodes in physicists still unfolding quest to understand space time and matter at their most fundamental In a series of vibrant essays Kaiser takes us inside moments of discovery and debate among the great minds of the era Albert Einstein Erwin Schrödinger Stephen Hawking and many more who have indelibly shaped our understanding of nature as they have tried to make sense of a messy world Ranging across space and time the episodes span the heady 1920s the dark days of the 1930s the turbulence of the Cold War and the peculiar political realities that followed In those eras as in our own researchers ambition has often been to transcend the vagaries of here and now to contribute lasting insights into how the world works that might reach beyond a given researcher s limited view In *Quantum Legacies* Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations and in doing so he illuminates the deep ties between scientific exploration and the human condition A masterpiece of historical analysis *Nature* A remarkable set of vignettes about major developments in physics and cosmology of the past century Kip Thorne Nobel Laureate in Physics Beautifully written and extraordinarily well researched the book makes a profound point about the sociopolitical nature of science that all readers from physics buffs and historians to students and laypeople need to hear Amanda Gefter author of

Trespassing on Einstein's Lawn *Drawing Physics* Don S. Lemons, 2018-04-13 Drawings and short essays offer engaging and accessible explanations of key ideas in physics from triangulation to relativity and beyond Humans have been trying to understand the physical universe since antiquity Aristotle had one vision the realm of the celestial spheres is perfect and Einstein another all motion is relativistic More often than not these different understandings begin with a simple drawing a pre mathematical picture of reality Such drawings are a humble but effective tool of the physicist's craft part of the tradition of thinking teaching and learning passed down through the centuries This book uses drawings to help explain fifty one key ideas of physics accessibly and engagingly Don Lemons a professor of physics and author of several physics books pairs short elegantly written essays with simple drawings that together convey important concepts from the history of physical science Lemons proceeds chronologically beginning with Thales' discovery of triangulation the Pythagorean monocord and Archimedes' explanation of balance He continues through Leonardo's description of earthshine the ghostly glow between the horns of a crescent moon Kepler's laws of planetary motion and Newton's cradle suspended steel balls demonstrating by their collisions that for every action there is always an equal and opposite reaction Reaching the twentieth and twenty first centuries Lemons explains the photoelectric effect the hydrogen atom general relativity the global greenhouse effect Higgs boson and more The essays place the science of the drawings in historical context describing for example Galileo's conflict with the Roman Catholic Church over his teaching that the sun is the center of the universe the link between the discovery of electrical phenomena and the romanticism of William Wordsworth and the shadow cast by the Great War over Einstein's discovery of relativity Readers of *Drawing Physics* with little background in mathematics or physics will say Now I see and now I understand *Hermann Haken: From the Laser to Synergetics* Bernd Kröger, 2014-11-25 Hermann Haken born 1927 is one of the fathers of the quantum mechanical laser theory formulated between 1962 and 1966 in strong competition with American researchers Later on he created Synergetics the science of cooperation in multicomponent systems The book concentrates on the development of his scientific work during the first thirty five years of his career In 1970 he and his doctoral student Robert Graham were able to show that the laser is an example of a nonlinear system far from thermal equilibrium that shows a phase transition like behavior Subsequently this insight opened the way for the formulation of Synergetics Synergetics is able to explain how very large systems show the phenomenon of self organization that can be mathematically described by only very few order parameters The results of Haken's research were published in two seminal books *Synergetics* 1977 and *Advanced Synergetics* 1983 After the year 1985 Haken concentrated his research on the macroscopic foundation of Synergetics This led him towards the application of synergetic principles in medicine cognitive research and finally in psychology A comprehensive bibliography of Hermann Haken's publications nearly 600 numbers is included in the book **More Than Nothing** Aaron Sidney Wright, 2024 Across decades and disciplines *More than Nothing* offers a scoping history of the vacuum as a lens into the development of modern physics

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