

FRONT PAGE PHYSICS

A CENTURY OF PHYSICS IN THE NEWS

Compiled by
A J Meadows
M M Hancock-Beaulieu

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Front Page Physics A Century Of Physics In The News

A.J Meadows, M.M Hancock-Beaulieu



Front Page Physics A Century Of Physics In The News:

Front Page Physics A.J Meadows, M.M Hancock-Beaulieu, 1994-01-01 From the beginning of the newspaper industry scientific developments research and results have been reported in the press and more than once hit the headlines Presented in language that can be understood by all journalists have tirelessly detailed all exciting humorous and major developments in all areas of science In this book ten decades of newspaper article clippings on physical science have been compiled and placed in context with explanatory commentaries Each decade is preceded with a calendar of events giving the reader a chronological overview as to the content This book will undoubtedly fascinate surprise and amuse whether read from cover to cover or simply dipped into at random

Reading Popular Physics Elizabeth Leane, 2017-03-02 Reading Popular Physics is a valuable contribution to our understanding of the nature and implications of physics popularizations A literary critic trained in science Elizabeth Leane treats popular science writing as a distinct and significant genre focusing particularly on five bestselling books Stephen Hawking's A Brief History of Time Steven Weinberg's The First Three Minutes James Gleick's Chaos M Mitchell Waldrop's Complexity and Gary Zukav's The Dancing Wu Li Masters Leane situates her examination of the texts within the heated interdisciplinary exchanges known as the Science Wars focusing specifically on the disputed issue of the role of language in science Her use of literary analysis reveals how popular science books function as sites for disciplinary skirmishes as she uncovers the ways in which popularizers of science influence the public In addition to their explicit discussion of scientific concepts Leane argues these authors employ subtle textual strategies that encode claims about the nature and status of scientific knowledge claims that are all the more powerful because they are unacknowledged Her book will change the way these texts are read offering readers a fresh perspective on this highly visible and influential genre

Flash of the Cathode Rays Per F Dahl, 1997-01-01 The electron is fundamental to almost all aspects of modern life controlling the behavior of atoms and how they bind together to form gases liquids and solids Flash of the Cathode Rays A History of J J Thomson's Electron presents the compelling story of the discovery of the electron and its role as the first subatomic particle in nature The book traces the evolution of the concept of electrical charge from the earliest glow discharge studies to the final cathode ray and oil drop experiments of J J Thomson and Robert Millikan It also provides an overview of the history of modern physics up to the advent of the old quantum theory around 1920 Consolidating scholarly material while incorporating new material discovered by the well respected author the book covers the continental and English race for the source of the cathode rays culminating in Thomson's corpuscle in 1897 It explores the events leading to Millikan's unambiguous isolation of the electron and the simultaneous circumstances surrounding the birth of Ernest Rutherford's nuclear atom and the discovery of radioactivity in 1896 The author also focuses on the controversies over N rays Becquerel's positive electron and the famous Ehrenhaft Millikan dispute over subelectrons Scholarly yet accessible to those with basic physics knowledge this book should be of interest to historians of science professional scientists and engineers

teachers and students of physics and general readers interested in the development of modern physics **American Journal of Physics** ,1995 **Isis Cumulative Bibliography 1986-1995: Time periods: 19th and 20th centuries. Book reviews** John Neu,1997 *The Observatory* ,1995 **New Statesman Society** ,1995-10 **New Scientist and Science Journal** ,1995 **New Scientist** ,1995 *20th Century Physics* Edoardo Amaldi,Giovanni Battimelli,Giovanni Paoloni,1998

In this important volume major events and personalities of 20th century physics are portrayed through recollections and historiographical works of one of the most prominent figures of European science A former student of Enrico Fermi and a leading personality of physical research and science policy in postwar Italy Edoardo Amaldi devoted part of his career to documenting both as witness and as historian some significant moments of 20th century science The focus of the book is on the European scene ranging from nuclear research in Rome in the 1930s to particle physics at CERN and includes biographies of physicists such as Ettore Majorana Bruno Touschek and Fritz Houtermans Edoardo Amaldi Carpaneto 1908 Roma 1989 was one of the leading figures in twentieth century Italian science He was conferred his degree in physics at Rome University in 1929 and played an active role as a member of the team of young physicists known as the boys of via Panisperna in the fundamental research on artificial induced radioactivity and the properties of neutrons which won the group s leader Enrico Fermi the Nobel Prize for physics in 1938 Following Fermi s departure for the United States in 1938 and the disruption of the original group Amaldi took upon himself the task of reorganising the research in physics in the difficult situation of post war Italy His own research went from nuclear physics to cosmic ray physics elementary particles and in later years gravitational waves Active research was for him always coupled to a direct involvement as a statesman of science and an organiser he was the leading figure in the establishment of INFN National Institute for Nuclear Physics and has played a major role as spokesman of the Italian scientific community in the creation of CERN the large European laboratory for high energy physics He also actively supported the formation of a similar trans national joint venture in space science which gave birth to the European Space Agency In these and several other scientific organisations he was often entrusted with directive responsibilities In his later years he developed a keen interest in the history of his discipline This gave rise to a rich production of historiographic material of which a significant sample is collected in this volume [A Tale of Two Continents](#) Abraham Pais,2014-07-14 People like myself who truly feel at home in several countries are not strictly at home anywhere writes Abraham Pais one of the world s leading theoretical physicists near the beginning of this engrossing chronicle of his life on two continents The author of an immensely popular biography of Einstein Subtle Is the Lord Pais writes engagingly for a general audience His tale describes his period of hiding in Nazi occupied Holland he ended the war in a Gestapo prison and his life in America particularly at the newly organized Institute for Advanced Study in Princeton then directed by the brilliant and controversial physicist Robert Oppenheimer Pais tells fascinating stories about Oppenheimer Einstein Bohr Sakharov Dirac Heisenberg and von Neumann as well as about nonscientists like Chaim Weizmann George

Kennan Erwin Panofsky and Pablo Casals His enthusiasm about science and life in general pervades a book that is partly a memoir partly a travel commentary and partly a history of science Pais's charming recollections of his years as a university student become somber with the German invasion of the Netherlands in 1940 He was presented with an unusual deadline for his graduate work a German decree that July 14 1941 would be the final date on which Dutch Jews could be granted a doctoral degree Pais received the degree only to be forced into hiding from the Nazis in 1943 practically next door to Anne Frank After the war he went to the Institute of Theoretical Physics in Copenhagen to work with Niels Bohr 1946 began his years at the Institute for Advanced Study where he worked first as a Fellow and then as a Professor until his move to Rockefeller University in 1963 Combining his understanding of disparate social and political worlds Pais comments just as insightfully on Oppenheimer's ordeals during the McCarthy era as he does on his own and his European colleagues struggles during World War II Originally published in 1997 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

The MIT Guide to Science and Engineering Communication, second edition James Paradis, Muriel Zimmerman, 2002-06-21 A second edition of a popular guide to scientific and technical communication updated to reflect recent changes in computer technology This guide covers the basics of scientific and engineering communication including defining an audience working with collaborators searching the literature organizing and drafting documents developing graphics and documenting sources The documents covered include memos letters proposals progress reports other types of reports journal articles oral presentations instructions and CVs and resumes Throughout the authors provide realistic examples from actual documents and situations The materials drawn from the authors' experience teaching scientific and technical communication bridge the gap between the university novice and the seasoned professional In the five years since the first edition was published communication practices have been transformed by computer technology Today most correspondence is transmitted electronically proposals are submitted online reports are distributed to clients through intranets journal articles are written for electronic transmission and conference presentations are posted on the Web Every chapter of the book reflects these changes The second edition also includes a compact Handbook of Style and Usage that provides guidelines for sentence and paragraph structure punctuation and usage and presents many examples of strategies for improved style

[Encyclopedia of Earth and Space Science](#) Timothy M. Kusky, Katherine E. Cullen, 2010 Provides a comprehensive reference for Earth and space sciences including entries on climate change stellar evolution tsunamis renewable energy options and mass wasting

John Stewart Bell and Twentieth-Century Physics Andrew Whitaker, 2016-07-07 John Stewart Bell 1928 1990 was one of the most important

figures in twentieth century physics famous for his work on the fundamental aspects of the century's most important theory quantum mechanics While the debate over quantum theory between the supremely famous physicists Albert Einstein and Niels Bohr appeared to have become sterile in the 1930s Bell was able to revive it and to make crucial advances Bell's Theorem or Bell's Inequalities He was able to demonstrate a contradiction between quantum theory and essential elements of pre quantum theory locality and causality The book gives a non mathematical account of Bell's relatively impoverished upbringing in Belfast and his education It describes his major contributions to quantum theory but also his important work in the physics of accelerators and nuclear and elementary particle physics [Choice](#) ,2004 *Book News* ,1899

Encyclopaedia of Twentieth Century Journalists William H. Taft,2015-07-16 Originally published in 1986 This book is a unique compilation of biographical sketches which covers editors publishers photographers bureau chiefs columnists commentators cartoonists and artists Alphabetical entries provide overviews of the lives and personalities of a good cross section of important people There is also a short essay on awards and prize winners Everything is efficiently indexed This is a supremely useful reference tool for those in mass media and popular culture fields *Meltdown!* Fred Bortz,2017-01-01 Japan March 11 2011 2 46 P M The biggest earthquake in Japan's history and one of the world's five most powerful since 1900 devastated the Tohoku region 320 kilometers 200 miles northeast of Tokyo It triggered a huge tsunami that left crippling damage in its wake More than 13 000 people drowned and thousands of buildings and homes were reduced to rubble As people assessed the damage they made the most frightening discovery of all the Fukushima 1 nuclear power plant was seriously damaged and three of its six reactors were heading for meltdowns Workers tried desperately but unsuccessfully to save them Explosions and fires released radioactivity into the air Within days the Japanese government declared a 20 kilometer 12 mile evacuation zone The future of the plant the long term health of those exposed to radiation and the effects on the environment remained uncertain Learn more about this massive catastrophe as Dr Fred Bortz examines both the human tragedy and the scientific implications of the nuclear meltdown Compare this disaster to similar nuclear events in the United States and in Ukraine and move ahead with Dr Bortz as he explores the global debate about the future of nuclear power and alternative sources of energy [Resources in Education](#) ,1990 **Theosophy** ,1927

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