

Science in the Early Twentieth Century

An Encyclopedia



Jacob Darwin Hamblin

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the the way in which the modern world is viewed

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Hamblin, 2005-03-08 The first A Z resource on the history of science from 1900 to 1950 examining the dynamic between science and the social political and cultural forces of the era Though many books have highlighted the great scientific discoveries of the early 1900s few have tackled the wider context in which these milestones were achieved Science in the Early Twentieth Century covers everything from quantum physics to penicillin and more including all the major scientific developments of the period detailing not only the scientists and their work but also the social and political forces that dominated the scientific agenda Over 200 A Z entries chronicle the landmark scientific discoveries and personalities of the period including such scientific giants as Albert Einstein and Marie Curie Placing science firmly within its cultural context this thoroughly researched accessible resource takes a uniquely interdisciplinary approach making it an invaluable text for scientists educators students and the general reader

The Discoveries

Alan Lightman, 2010-10-22 An extraordinarily accessible illuminating chronicle of the great moments of scientific discovery in the 20th century and an exploration into the minds of the remarkable men and women behind them We know and read the literary masterpieces how many of us have had the opportunity not only to read but understand the masterpieces of science that describe the very moment of discovery The last century has seen an explosion of creativity and insight that led to breakthroughs in every field of science from the theory of relativity to the first quantum model of the atom to the mapping of the structure of DNA these discoveries profoundly changed how we understand the world and our place in it Alan Lightman tells the stories of two dozen breakthroughs made by such brilliant scientists as Einstein Bohr McClintock and Pauling among others drawing on his unique background as a scientist and novelist to reveal the process of scientific discovery at its greatest He outlines the intellectual and emotional landscape of each discovery portrays the personalities and human drama of the scientists involved and explains the significance and impact of the work Finally he gives an unprecedented and exhilarating guided tour through each of the original papers

Science Progress in the Twentieth Century, 1907

Science

Trevor Illtyd Williams, 1990 Presents the major developments of 20th century science in their historical context covering the three main fields of physical sciences biological and medical sciences and technology

The Age Of Science

Gerard Piel, 2001-10-25 When historians of the future come to examine western civilization in the twentieth century one area of intellectual accomplishment will stand out above all others more than any other era before it the twentieth century was an age of science Not only were the practical details of daily life radically transformed by the application of scientific discoveries but our very sense of who we are how our minds work how our world came to be how it works and our proper role in it our ultimate origins and our ultimate fate were all influenced by scientific thinking as never before in human history In The Age of Science the former editor and publisher of Scientific American gives us a sweeping overview of the scientific achievements of the twentieth century with chapters on the fundamental forces of nature the subatomic world cosmology the cell and molecular biology earth history and the evolution of

life and human evolution Beautifully written and illustrated this is a book for the connoisseur an elegant informative magisterial summation of one of the twentieth century s greatest cultural achievements **Making 20th Century Science** Stephen G. Brush,2015-03-16 Historically the scientific method has been said to require proposing a theory making a prediction of something not already known testing the prediction and giving up the theory or substantially changing it if it fails the test A theory that leads to several successful predictions is more likely to be accepted than one that only explains what is already known but not understood This process is widely treated as the conventional method of achieving scientific progress and was used throughout the twentieth century as the standard route to discovery and experimentation But does science really work this way In *Making 20th Century Science* Stephen G Brush discusses this question as it relates to the development of science throughout the last century Answering this question requires both a philosophically and historically scientific approach and Brush blends the two in order to take a close look at how scientific methodology has developed Several cases from the history of modern physical and biological science are examined including Mendeleev s Periodic Law Kekule s structure for benzene the light quantum hypothesis quantum mechanics chromosome theory and natural selection In general it is found that theories are accepted for a combination of successful predictions and better explanations of old facts *Making 20th Century Science* is a large scale historical look at the implementation of the scientific method and how scientific theories come to be accepted **Life Science in the Twentieth Century** Garland E. Allen,1951-01 **The Age of Science** Frances Power Cobbe,1876 *Landscapes and Labscapes* Robert E. Kohler,2002-11 What is it like to do field biology in a world that exalts experiments and laboratories How have field biologists assimilated laboratory values and practices and crafted an exact quantitative science without losing their naturalist souls In *Landscapes and Labscapes* Robert E Kohler explores the people places and practices of field biology in the United States from the 1890s to the 1950s He takes readers into the fields and forests where field biologists learned to count and measure nature and to read the imperfect records of nature s experiments He shows how field researchers use nature s particularities to develop practices of place that achieve in nature what laboratory researchers can only do with simplified experiments Using historical frontiers as models Kohler shows how biologists created vigorous new border sciences of ecology and evolutionary biology *Science Progress in the Twentieth Century* ,1922 **A Century of Nature** Laura Garwin,Tim Lincoln,2010-03-15 Many of the scientific breakthroughs of the twentieth century were first reported in the journal *Nature* *A Century of Nature* brings together in one volume *Nature* s greatest hits reproductions of seminal contributions that changed science and the world accompanied by essays written by leading scientists including four Nobel laureates that provide historical context for each article explain its insights in graceful accessible prose and celebrate the serendipity of discovery and the rewards of searching for needles in haystacks *Being Modern* ,2018 *Science and the American Century* Sally Gregory Kohlstedt,David Kaiser,2013-03-14 The twentieth century was one of astonishing change in science especially as pursued in the United States Against a

backdrop of dramatic political and economic shifts brought by world wars intermittent depressions sporadic and occasionally massive increases in funding and expanding private patronage this scientific work fundamentally reshaped everyday life Science and the American Century offers some of the most significant contributions to the study of the history of science technology and medicine during the twentieth century all drawn from the pages of the journal Isis Fourteen essays from leading scholars are grouped into three sections each presented in roughly chronological order The first section charts several ways in which our knowledge of nature was cultivated revealing how scientific practitioners and the public alike grappled with definitions of the natural as they absorbed and refracted global information The essays in the second section investigate the changing attitudes and fortunes of scientists during and after World War II The final section documents the intricate ways that science as it advanced became intertwined with social policies and the law This important and useful book provides a thoughtful and detailed overview for scholars and students of American history and the history of science as well as for scientists and others who want to better understand modern science and science in America

Science, Jews, and Secular Culture David A. Hollinger, 1998-12-20 This remarkable group of essays describes the culture wars that consolidated a new secular ethos in mid twentieth century American academia and generated the fresh energies needed for a wide range of scientific and cultural enterprises Focusing on the decades from the 1930s through the 1960s David Hollinger discusses the scientists social scientists philosophers and historians who fought the Christian biases that had kept Jews from fully participating in American intellectual life Today social critics take for granted the comparatively open outlook developed by these men and men they were mostly and charge that their cosmopolitanism was not sufficiently multicultural Yet Hollinger shows that the liberal cosmopolitans of the mid century generation defined themselves against the realities of their own time McCarthyism Nazi and Communist doctrines a legacy of anti Semitic quotas and both Protestant and Catholic versions of the notion of a Christian America The victory of liberal cosmopolitans was so sweeping by the 1960s that it has become easy to forget the strength of the enemies they fought Most books addressing the emergence of Jewish intellectuals celebrate an illustrious cohort of literary figures based in New York City But the pieces collected here explore the long postponed acceptance of Jewish immigrants in a variety of settings especially the social science and humanities faculties of major universities scattered across the country Hollinger acknowledges the limited rather parochial sense of mankind that informed some mid century thinking but he also inspires in the reader an appreciation for the integrationist aspirations of a society truly striving toward equality His cast of characters includes Vannevar Bush James B Conant Richard Hofstadter Robert K Merton Lionel Trilling and J Robert Oppenheimer

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