

# Epub free Physical sciences memorandum papers 2013 Copy

reprint of the original first published in 1872 the publishing house anatiposi publishes historical books as reprints due to their age these books may have missing pages or inferior quality our aim is to preserve these books and make them available to the public so that they do not get lost americans have long been suspicious of experts and elites this new history explains why so many have believed that science has the power to corrupt american culture americans today are often skeptical of scientific authority many conservatives dismiss climate change and darwinism as liberal fictions arguing that tenured radicals have coopted the sciences and other disciplines some progressives especially in the universities worry that science s celebration of objectivity and neutrality masks its attachment to eurocentric and patriarchal values as we grapple with the implications of climate change and revolutions in fields from biotechnology to robotics to computing it is crucial to understand how scientific authority functions and where it has run up against political and cultural barriers science under fire reconstructs a century of battles over the cultural implications of science in the united states andrew jewett reveals a persistent current of criticism which maintains that scientists have injected faulty social philosophies into the nation s bloodstream under the cover of neutrality this charge of corruption has taken many forms and appeared among critics with a wide range of social political and theological views but common to all is the argument that an ideologically compromised science has produced an array of social ills jewett shows that this suspicion of science has been a major force in american politics and culture by tracking its development varied expressions and potent consequences since the 1920s looking at today s battles over science jewett argues that citizens and leaders must steer a course between on the one hand the naïve image of science as a pristine value neutral form of knowledge and on the other the assumption that scientists claims are merely ideologies masquerading as truths many commentators feared that the education reform act of 1988 sounded the death knell for teacher professionalism in britain more than a decade later however professionalism appears to have staged a miraculous recovery david blunkett says that it is back at the very heart of teaching but what kind of professionalism is this in whose interest is its recovery and what effects will it have and how does this development relate to changes in edict countries and other professions the politics of professionalism provides authoritative answers to these questions it does so by setting the debates in their historical context and by drawing on detailed research findings on teachers experience of work arid education especially the curriculum in the current era in the process this book makes a major contribution to our understanding of the politics history and sociology of teaching and the other professions this penetrating case study of institution building and entrepreneurship in science shows how a minor medical speciality evolved into a large and powerful academic discipline drawing extensively on little used archival sources the author analyses in detail how biomedical science became a central part of medical training and practice the book shows how biochemistry was defined as a distinct discipline by the programmatic vision of individual biochemists and of patrons and competitors in related disciplines it shows how discipline builders used research programmes as strategies that they adapted to the opportunities offered by changing educational markets and national medical reform movements in the united states britain and germany the author argues that the priorities and styles of various departments and schools of biochemistry reflect systematic social relationships between that discipline and biology chemistry and

medicine science is shaped by its service roles in particular local contexts this is the central theme the author's view of the political economy of modern science will be of interest to historians and social scientists scientific and medical practitioners and anyone interested in the ecology of knowledge in scientific institutions and professions philosophers and kings examines the theme of education for leadership in english secondary education during the twentieth century increasingly scholars in the humanities are calling for a reengagement with the natural sciences taking their cues from recent breakthroughs in genetics and the neurosciences advocates of big history are reassessing long held assumptions about the very definition of history its methods and its evidentiary base in scientific history elena aronova maps out historians continuous engagement with the methods tools values and scale of the natural sciences by examining several waves of their experimentation that surged highest at perceived times of trouble from the crisis ridden decades of the early twentieth century to the ruptures of the cold war the book explores the intertwined trajectories of six intellectuals and the larger programs they set in motion henri berr 1863 1954 nikolai bukharin 1888 1938 lucien febvre 1878 1956 nikolai vavilov 1887 1943 julian huxley 1887 1975 and john desmond bernal 1901 1971 though they held different political views spoke different languages and pursued different goals these thinkers are representative of a larger motley crew who joined the techniques approaches and values of science with the writing of history and who created powerful institutions and networks to support their projects in tracing these submerged stories aronova reveals encounters that profoundly shaped our knowledge of the past reminding us that it is often the forgotten parts of history that are the most revealing this book focuses on the activities of the scientific staff of the british national institute of oceanography during the cold war revealing how issues such as intelligence gathering environmental surveillance the identification of enemy science along with administrative practice informed and influenced the institute's cold war program in turn this program helped shape decisions taken by government military and the civil service towards science in post war britain this was not simply a case of government ministers choosing to patronize particular scientists but a relationship between politics and science that profoundly impacted on the future of ocean science in britain the second half of the twentieth century brought extraordinary transformations in knowledge and practice of the life sciences in an era of decolonization mass social welfare policies and the formation of new international institutions such as unesco and the who monumental advances were made in both theoretical and practical applications of the life sciences including the discovery of life's molecular processes and substantive improvements in global public health and medicine combining perspectives from the history of science and world history this volume examines the impact of major world historical processes of the postwar period on the evolution of the life sciences contributors consider the long term evolution of scientific practice research and innovation across a range of fields and subfields in the life sciences and in the context of cold war anxieties and ambitions together they examine how the formation of international organizations and global research programs allowed for transnational exchange and cooperation but in a period rife with competition and nationalist interests which influenced dramatic changes in the field as the postcolonial world order unfolded james b conant 1893 1978 was one of the titans of mid 20th century american history attaining prominence and power in multiple fields usually remembered as an educational leader he was president of harvard university for two tumultuous decades from the depression to world war ii to the cold war and mccarthyism to take that job he gave up a scientific career as one of the country's top chemists and he left it twenty years later to become eisenhower's top diplomat in postwar germany hershberg's prize winning study however examines a critical aspect of conant's life that was long obscured by government secrecy his pivotal role in the

birth of the nuclear age during world war ii as an advisor to roosevelt and then truman on the elite interim committee that considered how to employ the bomb against japan conant was intimately involved in the decisions to build and use the atomic bomb during and after the manhattan project he also led efforts to prevent a postwar nuclear arms race between the united states and the soviet union that he feared threatened the survival of civilization an apocalyptic prospect he glimpsed in the first instant of the new age when he witnessed the first test of the new weapon at alamogordo on july 16 1945 a vivid inquiry a model of historiography evocative reading conant was central to atomic policy and progress the bomb would be as much conant s as it was anyone s in government his inner response to that burden responsibility has long been obscured but it is illumined here philip morrison the new york times book review in his splendid portrait of conant james hershberg has illuminated the life of a pivotal figure in the making of u s nuclear scientific educational and foreign policy for almost a half century but the book is much more it is not only an insightful narration of conant s life it is also a brilliant and important account of the making of the nuclear age a chronicle that contains much that is new hershberg s superb study is a chronicle of conant s moral journey and we are the wiser for his having charted conant s path s s schweber washington post book world james g hershberg ably comes to grips with conant and his hazardous times his book is vibrantly written and compelling and it breaches conant s shield of public discretion in masterly fashion making extensive use of unpublished interviews diaries reports and correspondence pried from private and governmental repositories it is a huge ambitious work a history of the cold war as conant encountered it as well as a study of the man daniel j kevles the new yorker a well written comprehensive nonjudgmental but sensitive biography conant was involved in so many and such critical events that students of almost any aspect of our public life over the past half century will find useful the new material and helpful insights in this book this fine biography of one of the most important and complicated of america s twentieth century leaders immediately establishes james hershberg as one of america s outstanding young historians stephen e ambrose foreign affairs magnificent any reader interested in nuclear weapons cold war history or american politics from fdr to jfk will find this biography riveting priscilla mcmillan chicago tribune masterful the prose is clear the narrative forceful and the author s judgments are balanced and judicious this is simply splendid biography the highest praise one can give for a book of this sort is that the historian has not shrunk from speaking truth to power this book quietly but insistently does so it should be read by the public at large as one of the definitive texts on the cold war and the nuclear age hershberg s triumph is that he has prevailed over all the official lies to give us one more layer of the historical truth kai bird the nation riveting an impressive achievement honest and comprehensive in its scholarship the author has shown himself to be a historian of notable achievement and promise mcgeorge bundy nature hershberg s outstanding balanced biography lifts the self imposed secrecy surrounding a key architect of u s cold war policy and of the nuclear age publisher s weekly an impressive and substantial achievement hershberg has used the life of one strategically placed individual to illuminate the most important issues surrounding america s role and conduct in the nuclear age his book will be invaluable to scholars assessing the impact and legacy of the group who acquired the epithet wise men now that the cold war has receded carol s gruber science definitive a far more textured picture than one finds in conant s own guarded and unrevealing autobiography an important and rewarding book illuminating conant led a remarkable and eventful life in remarkable and eventful times james hershberg has explored that life and those times in exhaustive and revealing detail paul boyer the new republic james g hershberg has achieved the impossible he has written a huge biography of a harvard president that is fascinating informative and as

valuable a piece of american history as anything i have read in years mr hershberg has brought us back vividly to an age that seems remote so long ago but the questions about nuclear proliferation are the same even while the answers are still ambiguous as we watch men struggling with unanticipated post cold war problems and civil wars sprouting like jason s men at arms it is good to read this story about a complex man who deserves an important place in our history because he helped make that history possible arnold beichman the washington times engrossing a magisterial study of an awesome and intriguing public career kirkus reviews entertaining thought provocative dick teresi the wall street journal hershberg s book helps us more clearly understand the postwar establishment and offers a challenging appraisal of the role of elites of universities and of the state gar alperovitz in these times hershberg deserves great credit for cracking a tough new england walnut analyzing this very important public figure demonstrating how he fit into his own time and showing us what we can learn from the man daniel r mortensen the friday review of defense literature a compelling account an engaging examination of one of the central figures of the nuclear age it succeeds in showing one man s intersection with great events and issues and in the process illuminates those issues for us all american historical review well written conant s participation in one of our country s most dynamic periods is thanks to hershberg now much better understood library journal a reader of the book will enter the realm of the greats the shapers of worlds created by the atomic blasts at hiroshima and nagasaki conant was no bit player in cold war history the book is very successful in weaving conant s subsurface persona in with his ups and downs as a prominent and committed public figure and it leaves out little detail in describing top level decisions involving the cold war geopolitics of nuclear weaponry conant was a participant in most of these decisions with presidents roosevelt and truman themselves their secretaries of war and state and of course all the major scientific figures of the time chemical engineering news a wonderfully rich portrait that emerges from a carefully documented account of conant s role in the development of the atomic bomb and post war nuclear policy an extraordinarily well written text hershberg lays bare the person behind the persona warts dimples and all stanley goldberg bulletin of the atomic scientists this book offers a radically new and definitive reappraisal of allied responses to nazi human experiments and the origins of informed consent it places the victims and allied medical intelligence officers at centre stage while providing a full reconstruction of policies on war crimes and trials related to nazi medical atrocities and genocide at the beginning of the twentieth century industrialization both dramatically altered everyday experiences and shaped debates about the effects of immigration empire and urbanization in american abyss daniel e bender examines an array of sources eugenics theories scientific studies of climate socialist theory and even popular novels about cavemen to show how intellectuals and activists came to understand industrialization in racial and gendered terms as the product of evolution and as the highest expression of civilization their discussions he notes are echoed today by the use of such terms as the developed and developing worlds american industry was contrasted with the supposed savagery and primitivism discovered in tropical colonies but observers who made those claims worried that industrialization by encouraging immigration child and women s labor and large families was reversing natural selection factories appeared to favor the most unfit there was a disturbing tendency for such expressions of fear to favor eugenicist remedies bender delves deeply into the culture and politics of the age of industry linking urban slum tourism and imperial science with immigrant better baby contests and hoboes american abyss uncovers the complex interactions of turn of the century ideas about race class gender and ethnicity moreover at a time when immigration again lies at the center of american economy and society this book offers an alarming and pointed historical perspective on contemporary fears of immigrant laborers the

lives of professors and students deans and presidents their ideas and idiosyncrasies their triumphs and failures provide the driving force of waite s narrative avoiding the details of financing curriculum and administration that sometimes dominate institutional histories waite focuses on the men and women who were the blood of the university and who established its traditions and ethos halifax in peace and war is basic to dalhousie s history as is its relations with other colleges and universities in nova scotia waite sets all this out placing dalhousie s development within the larger nova scotian context in recent decades science has experienced a revolutionary shift the development and extensive application of computer modelling and simulation has transformed the knowledge making practices of scientific fields as diverse as astro physics genetics robotics and demography this epistemic transformation has brought with it a simultaneous heightening of political relevance and a renewal of international policy agendas raising crucial questions about the nature and application of simulation knowledges throughout public policy through a diverse range of case studies spanning over a century of theoretical and practical developments in the atmospheric and environmental sciences this book argues that computer modelling and simulation have substantially changed scientific and cultural practices and shaped the emergence of novel cultures of prediction making an innovative interdisciplinary contribution to understanding the impact of computer modelling on research practice institutional configurations and broader cultures this volume will be essential reading for anyone interested in the past present and future of climate change and the environmental sciences eisenhower for our time provides an introduction to the eisenhower presidency extracting lessons for today s world steven wagner proposes that the need to maintain balance defines eisenhower s presidency wagner examines a series of defining moments that were among eisenhower s greatest challenges some of which resulted in his greatest accomplishments the decision to run for president his political philosophy of the middle way the creation of a national security policy the french indochina war senator joseph mccarthy the little rock desegregation crisis the race for space and the famous farewell address wagner looks at eisenhower s executive ability leadership decision making and willingness to compromise as well as the qualities of duty integrity and good character the moments detailed in eisenhower for our time show eisenhower as a president intimately engaged in the decisions that defined america in his time and that apply to ours today the president s actions place him among the most successful presidents and provide many lessons to guide us in our time and in the future steady state and frequency response calibration of a microfabricated heat flux sensor have been completed this sensor is batch fabricated using standard micromachining techniques allowing both miniaturization and the ability to create arrays of sensors and their corresponding interconnects both high frequency and spatial response is desired so the sensors are both thin and of small cross sectional area thin film temperature sensitive resistors are used as the active gauge elements two sensor configurations are investigated 1 a wheatstone bridge using four resistors and 2 a simple two resistor design in each design one resistor or pair is covered by a thin layer 5000 a thermal barrier the other resistor or pair is covered by a thick 5 microns thermal barrier the active area of a single resistor is 360 microns by 360 microns the total gauge area is 1.5 mm square the resistors are made of 2000 a thick metal and the entire gauge is fabricated on a 25 microns thick flexible polyimide substrate heat flux through the surface changes the temperature of the resistors and produces a corresponding change in resistance sensors were calibrated using two radiation heat sources 1 a furnace for steady state and 2 a light and chopper for frequency response i do not consider myself to be robert millikan s biographer this book is not a full record of millikan s life or even of his scientific career it is an essay very selective on themes that are illustrated and illuminated by millikan s life in american science it is as well a

portrait of the development of a scientist robert millikan was among the most famous of american scientists to the public of the 1920s millikan represented science the first american born physicist to win the nobel prize millikan was a leader in the application of scientific research to military problems during world war i and a guiding force in the rise of the california institute of technology to a preeminent place in american scientific education and research his life is therefore peculiarly suited to illuminate and provide texture for the vast changes that have taken place in science during the twentieth century in this extended essay i employ the biographical mode to explore several important aspects of this theme millikan was successively a teacher researcher administrator entrepreneur and sage by describing the novel roles that he assumed i suggest how science grew in complexity and carved out an essential place for itself in our general culture robert h kargon from the preface of the rise of robert millikan portrait of a life in american science professor kargon has given us a sympathetic account of millikan s scientific career including his great triumphs his rearguard actions to defend untenable positions and the eventual rejection or revision of every major result or standpoint but he is more concerned with millikan s influence on the developing american physics community and with millikan s role in advancing american science generally and american higher education together with the chemist a p noyes and the astronomer g e hale millikan believed in an american scientific destiny this picture of american science is presented with great insight tremendous learning and wit professor kargon s book strikes a happy balance between being an interpretive story of a scientific life and a social history of science in america every reader interested in science or in the place of science in society will come away from this book with new information important insights and a better understanding of the growth of scientific ideas and institutions in the twentieth century i bernard cohen nature with the publication of this volume by kargon readers now have new and valuable access to much material about millikan that was previously unavailable kargon states that he is not writing a biography of millikan but rather a portrait of the man and the scientific scene in early 20th century america he has succeeded well in this endeavor the book is well written and readers who are already reasonably conversant with 20th century developments in physics will find much that is illuminating a genuine contribution to the history of science katherine r sopka american scientist here is an admirable piece of work kargon has not sought to make his readers like his subject but only to understand his scientific style his achievements and his character and to perceive how his life was a microcosm of new roles assumed by the scientist during the course of the twentieth century kargon s insights are important and his book is deserving of a careful study robert c post the american historical review a useful corrective to millikan s self portrait that reveals some of the blemishes as well as the embellishments of an important life in american science robert w seidel science for over thirty years the only overview of millikan s life available to the layman was his own selective autobiography that book either omitted or told only one side sometimes biased by hindsight of many important controversial episodes associated with his achievements and views kargon s portrait essay deals with some of these neglected incidents in a well written and coherent manner aimed at a wide readership john l michel technology and culture a very readable work with the virtue of containing a great deal of information in a brief compass kargon s book deserves and will receive a wide audience as the successor to its subject s autobiography kargon also merits credit for interesting discussions on millikan as a statesman administrator and spokesman for science a clearly first rate narrative nathan reingold isis admirably kargon combines institutional with intellectual history kargon offers a fascinating discussion of millikan s and george hale s contributions to war research the california institute of technology and the mount wilson observatory kargon rightly stresses the collaborators

links with the leaders of finance and industry developing los angeles as a brief sketch of millikan the scientific institution builder kargon s book deserves the wide audience he seeks peter galison the journal of american history the book leaves us in no doubt about millikan s ability but does not gloss over his occasional obstinacy or his wishful thinking about past errors matters on which some histories tend to be silent millikan was not a revolutionary who started new ideas but the author stresses rightly the importance of men like him for the progress of science rudolf peierls the new york review of books a gem of a book thought provoking insightful highly interesting reading lawrence badash university of california santa barbara the author skillfully weaves the story of millikan with the story of modern science in a book that will be well received by a variety of audiences from professional historians of science to the general public choice kargon s background in physics serves him well in placing millikan s work in its theoretical context in the analysis of the work itself and in generally managing to capture both the intense excitement and the routine involved in testing the ideas of the giants of that period in physics kargon has certainly opened enough questions in this perceptive work in addition to the large number that he has settled and he has demonstrated an important use for the biographical mode the general american historian as well as the historian of science can profit from reading this volume george h daniels the historian robert millikan s scientific career his character and his roles as teacher administrator at the california institute of technology entrepreneur and public figure are the topics covered in this biography even in discussing millikan s later decline as a front line scientist author robert kargon treats the scientist with compassion and fairness and portrays him as a many faceted often controversial man with doubts and uncertainties at the height of his fame the high school physics student will find this book engaging and insightful in its description of a scientist struggling with science self and society a cordell perkes the science teacher v ery well researched and written robert kargon gives an excellent picture of the rise of american physics from the years when every aspiring young american physicist wanted to go to germany to study to the years when every aspiring young european physicist wanted to come to the united states for the same purpose he clearly understands science yet knows how to present its history so that it is interesting and meaningful to non scientists he tells not only of millikan s triumphs but of his doubts as well of his discoveries and also of his mistakes all in all this is an excellent book strongly recommended to the reader who is interested in the history of american science and in the life of an outstanding practitioner of it donald e osterbrock the wisconsin magazine of history these documents provide a shocking inside account of the activities of one tobacco company brown williamson and its multinational parent british american tobacco over more than thirty years in this fascinating new history judith stein argues that in order to understand our current economic crisis we need to look back to the 1970s and the end of the age of the factory the era of postwar liberalism created by the new deal whose practices high wages and regulated capital produced both robust economic growth and greater income equality when high oil prices and economic competition from japan and germany battered the american economy new policies both international and domestic became necessary but war was waged against inflation rather than against unemployment and the government promoted a balanced budget instead of growth this says stein marked the beginning of the age of finance and subsequent deregulation free trade low taxation and weak unions that has fostered inequality and now the worst recession in eighty years drawing on extensive archival research and covering the economic intellectual political and labor history of the decade stein provides a wealth of information on the 1970s she also shows that to restore prosperity today america needs a new model more factories and fewer financial houses publisher s description reflecting new discoveries in fingerprint science lee and gaensslen s advances in fingerprint technology third

edition has been completely updated with new material and nearly double the references contained in the previous edition the book begins with a detailed review of current widely used development techniques as well as some older histo



**Memorandum to the Dept. of Education and Science on the White Paper : Top-up Loans for Students** 1989 reprint of the original first published in 1872 the publishing house anatisposi publishes historical books as reprints due to their age these books may have missing pages or inferior quality our aim is to preserve these books and make them available to the public so that they do not get lost

*Allegations of Political Interference with Government Climate Change Science* 2007 americans have long been suspicious of experts and elites this new history explains why so many have believed that science has the power to corrupt american culture americans today are often skeptical of scientific authority many conservatives dismiss climate change and darwinism as liberal fictions arguing that tenured radicals have coopted the sciences and other disciplines some progressives especially in the universities worry that science s celebration of objectivity and neutrality masks its attachment to eurocentric and patriarchal values as we grapple with the implications of climate change and revolutions in fields from biotechnology to robotics to computing it is crucial to understand how scientific authority functions and where it has run up against political and cultural barriers science under fire reconstructs a century of battles over the cultural implications of science in the united states andrew jewett reveals a persistent current of criticism which maintains that scientists have injected faulty social philosophies into the nation s bloodstream under the cover of neutrality this charge of corruption has taken many forms and appeared among critics with a wide range of social political and theological views but common to all is the argument that an ideologically compromised science has produced an array of social ills jewett shows that this suspicion of science has been a major force in american politics and culture by tracking its development varied expressions and potent consequences since the 1920s looking at today s battles over science jewett argues that citizens and leaders must steer a course between on the one hand the naïve image of science as a pristine value neutral form of knowledge and on the other the assumption that scientists claims are merely ideologies masquerading as truths

**Royal Commission on Scientific Instruction and the Advancement of Science** 2023-03-13 many commentators feared that the education reform act of 1988 sounded the death knell for teacher professionalism in britain more than a decade later however professionalism appears to have staged a miraculous recovery david blunkett says that it is back at the very heart of teaching but what kind of professionalism is this in whose interest is its recovery and what effects will it have and how does this development relate to changes in edict countries and other professions the politics of professionalism provides authoritative answers to these questions it does so by setting the debates in their historical context and by drawing on detailed research findings on teachers experience of work arid education especially the curriculum in the current era in the process this book makes a major contribution to our understanding of the politics history and sociology of teaching and the other professions

Parliamentary Papers 1861 this penetrating case study of institution building and entrepreneurship in science shows how a minor medical speciality evolved into a large and powerful academic discipline drawing extensively on little used archival sources the author analyses in detail how biomedical science became a central part of medical training and practice the book shows how biochemistry was defined as a distinct discipline by the programmatic vision of individual biochemists and of patrons and competitors in related disciplines it shows how discipline builders used research programmes as strategies that they adapted to the opportunities offered by changing educational markets and national medical reform movements in the united states britain and germany the author argues that the priorities and styles of various departments and schools of biochemistry reflect systematic social relationships between that discipline and biology chemistry and medicine science is shaped by its service roles in particular

local contexts this is the central theme the author's view of the political economy of modern science will be of interest to historians and social scientists scientific and medical practitioners and anyone interested in the ecology of knowledge in scientific institutions and professions

**Practical Guide for the Manufacture of Paper and Boards** 1866 philosophers and kings examines the theme of education for leadership in english secondary education during the twentieth century

*A Strategic Analysis of Science & Technology Policy* 1985 increasingly scholars in the humanities are calling for a reengagement with the natural sciences taking their cues from recent breakthroughs in genetics and the neurosciences advocates of big history are reassessing long held assumptions about the very definition of history its methods and its evidentiary base in scientific history elena aronova maps out historians continuous engagement with the methods tools values and scale of the natural sciences by examining several waves of their experimentation that surged highest at perceived times of trouble from the crisis ridden decades of the early twentieth century to the ruptures of the cold war the book explores the intertwined trajectories of six intellectuals and the larger programs they set in motion henri berr 1863 1954 nikolai bukharin 1888 1938 lucien febvre 1878 1956 nikolai vavilov 1887 1943 julian huxley 1887 1975 and john desmond bernal 1901 1971 though they held different political views spoke different languages and pursued different goals these thinkers are representative of a larger motley crew who joined the techniques approaches and values of science with the writing of history and who created powerful institutions and networks to support their projects in tracing these submerged stories aronova reveals encounters that profoundly shaped our knowledge of the past reminding us that it is often the forgotten parts of history that are the most revealing

**Science under Fire** 2020-12-08 this book focuses on the activities of the scientific staff of the british national institute of oceanography during the cold war revealing how issues such as intelligence gathering environmental surveillance the identification of enemy science along with administrative practice informed and influenced the institute's cold war program in turn this program helped shape decisions taken by government military and the civil service towards science in post war britain this was not simply a case of government ministers choosing to patronize particular scientists but a relationship between politics and science that profoundly impacted on the future of ocean science in britain

**Bibliography of Scientific and Industrial Reports** 1948 the second half of the twentieth century brought extraordinary transformations in knowledge and practice of the life sciences in an era of decolonization mass social welfare policies and the formation of new international institutions such as unesco and the who monumental advances were made in both theoretical and practical applications of the life sciences including the discovery of life's molecular processes and substantive improvements in global public health and medicine combining perspectives from the history of science and world history this volume examines the impact of major world historical processes of the postwar period on the evolution of the life sciences contributors consider the long term evolution of scientific practice research and innovation across a range of fields and subfields in the life sciences and in the context of cold war anxieties and ambitions together they examine how the formation of international organizations and global research programs allowed for transnational exchange and cooperation but in a period rife with competition and nationalist interests which influenced dramatic changes in the field as the postcolonial world order unfolded

**The Politics of Professionalism** 2000-05-01 james b conant 1893 1978 was one of the titans of mid 20th century american history attaining prominence and power in multiple fields usually remembered as an educational leader he was president of harvard

university for two tumultuous decades from the depression to world war ii to the cold war and mccarthyism to take that job he gave up a scientific career as one of the country's top chemists and he left it twenty years later to become eisenhower's top diplomat in postwar germany hershberg's prize winning study however examines a critical aspect of conant's life that was long obscured by government secrecy his pivotal role in the birth of the nuclear age during world war ii as an advisor to roosevelt and then truman on the elite interim committee that considered how to employ the bomb against japan conant was intimately involved in the decisions to build and use the atomic bomb during and after the manhattan project he also led efforts to prevent a postwar nuclear arms race between the united states and the soviet union that he feared threatened the survival of civilization an apocalyptic prospect he glimpsed in the first instant of the new age when he witnessed the first test of the new weapon at alamosordo on july 16 1945 a vivid inquiry a model of historiography evocative reading conant was central to atomic policy and progress the bomb would be as much conant's as it was anyone's in government his inner response to that burden responsibility has long been obscured but it is illumined here philip morrison the new york times book review in his splendid portrait of conant james hershberg has illumined the life of a pivotal figure in the making of u s nuclear scientific educational and foreign policy for almost a half century but the book is much more it is not only an insightful narration of conant's life it is also a brilliant and important account of the making of the nuclear age a chronicle that contains much that is new hershberg's superb study is a chronicle of conant's moral journey and we are the wiser for his having charted conant's path s s schweber washington post book world james g hershberg ably comes to grips with conant and his hazardous times his book is vibrantly written and compelling and it breaches conant's shield of public discretion in masterly fashion making extensive use of unpublished interviews diaries reports and correspondence pried from private and governmental repositories it is a huge ambitious work a history of the cold war as conant encountered it as well as a study of the man daniel j kevels the new yorker a well written comprehensive nonjudgmental but sensitive biography conant was involved in so many and such critical events that students of almost any aspect of our public life over the past half century will find useful the new material and helpful insights in this book this fine biography of one of the most important and complicated of america's twentieth century leaders immediately establishes james hershberg as one of america's outstanding young historians stephen e ambrose foreign affairs magnificent any reader interested in nuclear weapons cold war history or american politics from fdr to jfk will find this biography riveting priscilla mcmillan chicago tribune masterful the prose is clear the narrative forceful and the author's judgments are balanced and judicious this is simply splendid biography the highest praise one can give for a book of this sort is that the historian has not shrunk from speaking truth to power this book quietly but insistently does so it should be read by the public at large as one of the definitive texts on the cold war and the nuclear age hershberg's triumph is that he has prevailed over all the official lies to give us one more layer of the historical truth kai bird the nation riveting an impressive achievement honest and comprehensive in its scholarship the author has shown himself to be a historian of notable achievement and promise mcgeorge bundy nature hershberg's outstanding balanced biography lifts the self imposed secrecy surrounding a key architect of u s cold war policy and of the nuclear age publisher's weekly an impressive and substantial achievement hershberg has used the life of one strategically placed individual to illuminate the most important issues surrounding america's role and conduct in the nuclear age his book will be invaluable to scholars assessing the impact and legacy of the group who acquired the epithet wise men now that the cold war has receded carol s gruber science definitive a far more textured picture than one finds in conant's own

guarded and unrevealing autobiography an important and rewarding book illuminating conant led a remarkable and eventful life in remarkable and eventful times james hershberg has explored that life and those times in exhaustive and revealing detail paul boyer the new republic james g hershberg has achieved the impossible he has written a huge biography of a harvard president that is fascinating informative and as valuable a piece of american history as anything i have read in years mr hershberg has brought us back vividly to an age that seems remote so long ago but the questions about nuclear proliferation are the same even while the answers are still ambiguous as we watch men struggling with unanticipated post cold war problems and civil wars sprouting like jason s men at arms it is good to read this story about a complex man who deserves an important place in our history because he helped make that history possible arnold beichman the washington times engrossing a magisterial study of an awesome and intriguing public career kirkus reviews entertaining thought provocative dick teresi the wall street journal hershberg s book helps us more clearly understand the postwar establishment and offers a challenging appraisal of the role of elites of universities and of the state gar alperovitz in these times hershberg deserves great credit for cracking a tough new england walnut analyzing this very important public figure demonstrating how he fit into his own time and showing us what we can learn from the man daniel r mortensen the friday review of defense literature a compelling account an engaging examination of one of the central figures of the nuclear age it succeeds in showing one man s intersection with great events and issues and in the process illuminates those issues for us all american historical review well written conant s participation in one of our country s most dynamic periods is thanks to hershberg now much better understood library journal a reader of the book will enter the realm of the greats the shapers of worlds created by the atomic blasts at hiroshima and nagasaki conant was no bit player in cold war history the book is very successful in weaving conant s subsurface persona in with his ups and downs as a prominent and committed public figure and it leaves out little detail in describing top level decisions involving the cold war geopolitics of nuclear weaponry conant was a participant in most of these decisions with presidents roosevelt and truman themselves their secretaries of war and state and of course all the major scientific figures of the time chemical engineering news a wonderfully rich portrait that emerges from a carefully documented account of conant s role in the development of the atomic bomb and post war nuclear policy an extraordinarily well written text hershberg lays bare the person behind the persona warts dimples and all stanley goldberg bulletin of the atomic scientists Science and Technology in a Second Language: Papers from a Seminar Held at the University of Birmingham from 27th to 29th March, 1971 1971 this book offers a radically new and definitive reappraisal of allied responses to nazi human experiments and the origins of informed consent it places the victims and allied medical intelligence officers at centre stage while providing a full reconstruction of policies on war crimes and trials related to nazi medical atrocities and genocide

**From Medical Chemistry to Biochemistry** 1982-05-31 at the beginning of the twentieth century industrialization both dramatically altered everyday experiences and shaped debates about the effects of immigration empire and urbanization in american abyss daniel e bender examines an array of sources eugenics theories scientific studies of climate socialist theory and even popular novels about cavemen to show how intellectuals and activists came to understand industrialization in racial and gendered terms as the product of evolution and as the highest expression of civilization their discussions he notes are echoed today by the use of such terms as the developed and developing worlds american industry was contrasted with the supposed savagery and primitivism discovered in tropical colonies but observers who made those claims worried that industrialization by encouraging immigration child and women s labor and large

families was reversing natural selection factories appeared to favor the most unfit there was a disturbing tendency for such expressions of fear to favor eugenicist remedies bender delves deeply into the culture and politics of the age of industry linking urban slum tourism and imperial science with immigrant better baby contests and hobo american abyss uncovers the complex interactions of turn of the century ideas about race class gender and ethnicity moreover at a time when immigration again lies at the center of american economy and society this book offers an alarming and pointed historical perspective on contemporary fears of immigrant laborers

**Philosophers and Kings** 2002-04-18 the lives of professors and students deans and presidents their ideas and idiosyncrasies their triumphs and failures provide the driving force of waite s narrative avoiding the details of financing curriculum and administration that sometimes dominate institutional histories waite focuses on the men and women who were the blood of the university and who established its traditions and ethos halifax in peace and war is basic to dalhousie s history as is its relations with other colleges and universities in nova scotia waite sets all this out placing dalhousie s development within the larger nova scotian context

*Monthly Catalog of United States Government Publications* 1976 in recent decades science has experienced a revolutionary shift the development and extensive application of computer modelling and simulation has transformed the knowledge making practices of scientific fields as diverse as astro physics genetics robotics and demography this epistemic transformation has brought with it a simultaneous heightening of political relevance and a renewal of international policy agendas raising crucial questions about the nature and application of simulation knowledges throughout public policy through a diverse range of case studies spanning over a century of theoretical and practical developments in the atmospheric and environmental sciences this book argues that computer modelling and simulation have substantially changed scientific and cultural practices and shaped the emergence of novel cultures of prediction making an innovative interdisciplinary contribution to understanding the impact of computer modelling on research practice institutional configurations and broader cultures this volume will be essential reading for anyone interested in the past present and future of climate change and the environmental sciences

**Sessional Papers** 1906 eisenhower for our time provides an introduction to the eisenhower presidency extracting lessons for today s world steven wagner proposes that the need to maintain balance defines eisenhower s presidency wagner examines a series of defining moments that were among eisenhower s greatest challenges some of which resulted in his greatest accomplishments the decision to run for president his political philosophy of the middle way the creation of a national security policy the french indochina war senator joseph mccarthy the little rock desegregation crisis the race for space and the famous farewell address wagner looks at eisenhower s executive ability leadership decision making and willingness to compromise as well as the qualities of duty integrity and good character the moments detailed in eisenhower for our time show eisenhower as a president intimately engaged in the decisions that defined america in his time and that apply to ours today the president s actions place him among the most successful presidents and provide many lessons to guide us in our time and in the future

The Shipley Collection of Scientific Papers 1911 steady state and frequency response calibration of a microfabricated heat flux sensor have been completed this sensor is batch fabricated using standard micromachining techniques allowing both miniaturization and the ability to create arrays of sensors and their corresponding interconnects both high frequency and spatial response is desired so the sensors are both thin and of small cross sectional area thin film temperature sensitive resistors are used as the active gauge elements two sensor configurations are investigated 1 a wheatstone bridge

using four resistors and 2 a simple two resistor design in each design one resistor or pair is covered by a thin layer 5000 a thermal barrier the other resistor or pair is covered by a thick 5 microns thermal barrier the active area of a single resistor is 360 microns by 360 microns the total gauge area is 1 5 mm square the resistors are made of 2000 a thick metal and the entire gauge is fabricated on a 25 microns thick flexible polyimide substrate heat flux through the surface changes the temperature of the resistors and produces a corresponding change in resistance sensors were calibrated using two radiation heat sources 1 a furnace for steady state and 2 a light and chopper for frequency response

**Scientific History** 2021-04-02 i do not consider myself to be robert millikan s biographer this book is not a full record of millikan s life or even of his scientific career it is an essay very selective on themes that are illustrated and illuminated by millikan s life in american science it is as well a portrait of the development of a scientist robert millikan was among the most famous of american scientists to the public of the 1920s millikan represented science the first american born physicist to win the nobel prize millikan was a leader in the application of scientific research to military problems during world war i and a guiding force in the rise of the california institute of technology to a preeminent place in american scientific education and research his life is therefore peculiarly suited to illuminate and provide texture for the vast changes that have taken place in science during the twentieth century in this extended essay i employ the biographical mode to explore several important aspects of this theme millikan was successively a teacher researcher administrator entrepreneur and sage by describing the novel roles that he assumed i suggest how science grew in complexity and carved out an essential place for itself in our general culture robert h kargon from the preface of the rise of robert millikan portrait of a life in american science professor kargon has given us a sympathetic account of millikan s scientific career including his great triumphs his rearguard actions to defend untenable positions and the eventual rejection or revision of every major result or standpoint but he is more concerned with millikan s influence on the developing american physics community and with millikan s role in advancing american science generally and american higher education together with the chemist a p noyes and the astronomer g e hale millikan believed in an american scientific destiny this picture of american science is presented with great insight tremendous learning and wit professor kargon s book strikes a happy balance between being an interpretive story of a scientific life and a social history of science in america every reader interested in science or in the place of science in society will come away from this book with new information important insights and a better understanding of the growth of scientific ideas and institutions in the twentieth century i bernard cohen nature with the publication of this volume by kargon readers now have new and valuable access to much material about millikan that was previously unavailable kargon states that he is not writing a biography of millikan but rather a portrait of the man and the scientific scene in early 20th century america he has succeeded well in this endeavor the book is well written and readers who are already reasonably conversant with 20th century developments in physics will find much that is illuminating a genuine contribution to the history of science katherine r sopka american scientist here is an admirable piece of work kargon has not sought to make his readers like his subject but only to understand his scientific style his achievements and his character and to perceive how his life was a microcosm of new roles assumed by the scientist during the course of the twentieth century kargon s insights are important and his book is deserving of a careful study robert c post the american historical review a useful corrective to millikan s self portrait that reveals some of the blemishes as well as the embellishments of an important life in american science robert w seidel science for over thirty years the only overview of millikan s

life available to the layman was his own selective autobiography that book either omitted or told only one side sometimes biased by hindsight of many important controversial episodes associated with his achievements and views kargon's portrait essay deals with some of these neglected incidents in a well written and coherent manner aimed at a wide readership john l michel technology and culture a very readable work with the virtue of containing a great deal of information in a brief compass kargon's book deserves and will receive a wide audience as the successor to its subject's autobiography kargon also merits credit for interesting discussions on millikan as a statesman administrator and spokesman for science a clearly first rate narrative nathan reingold isis admirably kargon combines institutional with intellectual history kargon offers a fascinating discussion of millikan's and george hale's contributions to war research the california institute of technology and the mount wilson observatory kargon rightly stresses the collaborators links with the leaders of finance and industry developing los angeles as a brief sketch of millikan the scientific institution builder kargon's book deserves the wide audience he seeks peter galison the journal of american history the book leaves us in no doubt about millikan's ability but does not gloss over his occasional obstinacy or his wishful thinking about past errors matters on which some histories tend to be silent millikan was not a revolutionary who started new ideas but the author stresses rightly the importance of men like him for the progress of science rudolf peierls the new york review of books a gem of a book thought provoking insightful highly interesting reading lawrence badash university of california santa barbara the author skillfully weaves the story of millikan with the story of modern science in a book that will be well received by a variety of audiences from professional historians of science to the general public choice kargon's background in physics serves him well in placing millikan's work in its theoretical context in the analysis of the work itself and in generally managing to capture both the intense excitement and the routine involved in testing the ideas of the giants of that period in physics kargon has certainly opened enough questions in this perceptive work in addition to the large number that he has settled and he has demonstrated an important use for the biographical mode the general american historian as well as the historian of science can profit from reading this volume george h daniels the historian robert millikan's scientific career his character and his roles as teacher administrator at the california institute of technology entrepreneur and public figure are the topics covered in this biography even in discussing millikan's later decline as a front line scientist author robert kargon treats the scientist with compassion and fairness and portrays him as a many faceted often controversial man with doubts and uncertainties at the height of his fame the high school physics student will find this book engaging and insightful in its description of a scientist struggling with science self and society a cordell perkes the science teacher v ery well researched and written robert kargon gives an excellent picture of the rise of american physics from the years when every aspiring young american physicist wanted to go to germany to study to the years when every aspiring young european physicist wanted to come to the united states for the same purpose he clearly understands science yet knows how to present its history so that it is interesting and meaningful to non scientists he tells not only of millikan's triumphs but of his doubts as well of his discoveries and also of his mistakes all in all this is an excellent book strongly recommended to the reader who is interested in the history of american science and in the life of an outstanding practitioner of it donald e osterbrock the wisconsin magazine of history

**White papers** 1995 these documents provide a shocking inside account of the activities of one tobacco company brown williamson and its multinational parent british american tobacco over more than thirty years

*Ocean Science and the British Cold War State* 2018-05-03 in this fascinating new history

judith stein argues that in order to understand our current economic crisis we need to look back to the 1970s and the end of the age of the factory the era of postwar liberalism created by the new deal whose practices high wages and regulated capital produced both robust economic growth and greater income equality when high oil prices and economic competition from japan and germany battered the american economy new policies both international and domestic became necessary but war was waged against inflation rather than against unemployment and the government promoted a balanced budget instead of growth this says stein marked the beginning of the age of finance and subsequent deregulation free trade low taxation and weak unions that has fostered inequality and now the worst recession in eighty years drawing on extensive archival research and covering the economic intellectual political and labor history of the decade stein provides a wealth of information on the 1970s she also shows that to restore prosperity today america needs a new model more factories and fewer financial houses publisher s description

**Air Force Scientific Research Bibliography: 1950-56** 1961 reflecting new discoveries in fingerprint science lee and gaensslen s advances in fingerprint technology third edition has been completely updated with new material and nearly double the references contained in the previous edition the book begins with a detailed review of current widely used development techniques as well as some older histo

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