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in 1922 the teenage son of a jewish immigrant ventured from manhattan to new mexico for his health it was the first of many trips to the sangre de cristo mountains a western retreat where j robert oppenheimer would eventually hold pathbreaking discussions with world renowned scientists about atomic physics oppenheimer came to feel at home in the american west and while extensive studies have been made of the man this is the first book to explicitly link him with the region j robert oppenheimer the cold war and the atomic west explores how the west influenced oppenheimer as a scientist and as a person and the role he played in influencing it jon hunner s concise account of oppenheimer s life and the emergence of an atomic west distills a vast literature for students and general readers in this brisk engaging biography the author recounts how oppenheimer helped locate the atomic weapons research lab at los alamos new mexico and helped establish leading physics departments at the university of california berkeley and caltech by taking part in moving atomic physics west of the mississippi oppenheimer bolstered the establishment of research labs uranium mines nuclear reactors and more bringing talented people and billions of dollars in federal contracts to the region interwoven into this atomic tale are insights into the physicist s troubled growing up years his marriage and family life the bombing of hiroshima and nagasaki and oppenheimer s eventual downfall after the first atomic bomb burst over the new mexican desert in 1945 and as the cold war developed the american myth of the wild west expanded to encompass atomic sheriffs saving the world for democracy even as powerful opponents began questioning oppenheimer s place in that story against the backdrop of the physicist s life twining with the region s history hunner explores the promise and peril of the atomic age the manhattan project the world war ii race to produce an atomic bomb transformed the entire country in myriad ways but it did not affect each region equally acting on an enduring perception of the american west as an empty place the u s government located a disproportionate number of nuclear facilities particularly the ones most likely to spread pollution in western states the manhattan project manufactured plutonium at hanford washington designed and assembled bombs at los alamos new mexico and detonated the world s first atomic bomb at alamagordo new mexico on june 16 1945 in the years that followed the war the u s atomic energy commission selected additional western sites for its work many westerners initially welcomed the atom like federal officials they too regarded their region as empty or underdeveloped facilities to make test and base atomic weapons sites to store nuclear waste and even nuclear power plants were regarded as assets by the 1960s and 1970s however regional attitudes began to change at a variety of locales ranging from eskimo alaska to mormon utah westerners devoted themselves to resisting the atom and its effects on their environments and communities just as the atomic age had dawned in the american west so its artificial sun began to set there the atomic west brings together contributions from several disciplines to explore the impact on the west of the development of atomic power from wartime secrecy and initial postwar enthusiasm to public doubts and protest in the 1970s and 1980s an impressive example of the benefits of interdisciplinary studies on complex topics the atomic west advances our understanding of both regional history and the history of science and does so with human communities as a significant focal point the book will be of special interest to students and experts on the american west environmental history and the history of science and technology many of the most important properties of materials in high technology applications are strongly influenced or even controlled by the presence of solid interfaces in this work leading international authorities review the broad range of subjects in this field focusing on the atomic level properties of solid interfaces this title is part of uc press s voices revived program which commemorates university of california press s mission to seek out and cultivate the brightest minds and give them voice reach and impact drawing on a backlist dating to 1893 voices revived makes high quality peer reviewed scholarship accessible once again using print on demand technology this title was originally published in 1989 this book comprises a collection of authors individual approaches to the relationship between nature science and art created with the use of computers discussing issues related to the use of visual language in communication about biologically inspired scientific data visual literacy in science and application of practitioner's approach provided by publisher rocket states crosses the disciplines of cold war studies american literature american studies and cultural studies the particular attraction of this study lies in the combination of its range close textual and visual analysis of the correlations between land and weaponry set firmly within its political and cultural contexts with its unique analytical approach the book offers a synthesis between history theories of technology theories of space popular culture literary study and military science it illuminates a variety of

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literary texts from key writers and thinkers such as pynchon stephen king norman mailer and tom wolfe while also invoking figures like nikola tesla james webb batman and ronald reagan organised topographically according to how missile technology manifests itself differently in particular locations rocket states s geographical targets are colorado kansas cape canaveral and new york variously titled excavation preservation evacuation and transmission it advances through these states roughly chronologically beginning in the late 1940s and early 1950s and coming to an end in the first part of the 21st century collignon s argument is concerned with identifying the recurring figures and fantasies of the cold war the dome or parabola as sheltering techno form the fictions of total security adapting to constantly changing targeting strategies gadget love closed freezing worlds as such rocket states analyses by what processes the cold war is frequently literalised in its weapons installations and how these facilities in turn shape dreams of containment survival escape techno supremacy the story of matter and the history of the cosmos from the perspective of a single oxygen atom told with the insight and wit of one of the most dynamic physicists and writers working today through this astonishing work he manages to stoke wonder at the powers and unlikely events that conspired to create our solar system our ecosystem and us the bulletin of the atomic scientists is the premier public resource on scientific and technological developments that impact global security founded by manhattan project scientists the bulletin s iconic doomsday clock stimulates solutions for a safer world the diffusion or migration of atoms in matter of whatever form is a basic consequence of the existence of atoms in metals atomic diffusion has a well established position of importance as it is recognized that there are few metallurgical processes which do not embody the diffusion of one or more of the constituents as regards semiconductors any thermal annealing treatment involves atomic diffusion in semiconductor technology diffusion processes provide a vital and basic means of fabricating doped structures notwithstanding the importance of diffusion in the preparative processes of semiconductor structures and samples the diffusion based aspects have acquired an empirical outlook verging almost on alchemy the first attempt to present a systematic account of semiconductor diffusion processes was made by boltaks 11 in 1961 during the decade since boltaks book appeared much work germane to understanding the atomic mechanisms responsible for diffusion in semiconductors has been published the object of the present book is to give an account of and to consolidate present knowledge of semiconductor diffusion in terms of basic concepts of atomic migration in crystalline lattices to this end exhaustive compilations of empirical data have been avoided as these are available elsewhere 2 31 attention has been limited to considering evidence capable of yielding insight into the physical processes concerned in atomic diffusion the bulletin of the atomic scientists is the premier public resource on scientific and technological developments that impact global security founded by manhattan project scientists the bulletin's iconic doomsday clock stimulates solutions for a safer world atomic age america looks at the broad influence of atomic energy focusing particularly on nuclear weapons and nuclear power on the lives of americans within a world context the text examines the social political diplomatic environmental and technical impacts of atomic energy on the 20th and 21st centuries with a look back to the origins of atomic theory in 1974 india exploded an atomic device in may 1998 the new bjp government exploded several more encountering in the process domestic plaudits but international condemnation and a nuclear arms race in south asia this book is the first serious historical account of the development of nuclear power in india and of how the bomb came to be made the author questions orthodox interpretations implying that it was a product of the indo pakistani conflict instead he suggests that the explosions had nothing to do with national security as conventionally understood instead he demonstrates the linkages that existed between the two apparently separate discourses of national security and national development and explores their common underlying basis in postcolonial states the result is a remarkable book that breaks new ground in integrating comparative politics international relations and cultural studies persuasive and based on deep research atomic awakening taught me a great deal nature the american public s introduction to nuclear technology was manifested in destruction and death with hiroshima and the cold war still ringing in our ears our perception of all things nuclear is seen through the lens of weapons development nuclear 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J. Robert Oppenheimer, The Cold War, and The Atomic West 2012-11-12

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Atomic Energy Research 1970

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Hearings and Reports on Atomic Energy 1946

many of the most important properties of materials in high technology applications are strongly influenced or even controlled by the presence of solid interfaces in this work leading international authorities review the broad range of subjects in this field focusing on the atomic level properties of solid interfaces

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Annual Report to Congress of the Atomic Energy Commission for ... 1960

this title is part of uc press s voices revived program which commemorates university of california press s mission to seek out and cultivate the brightest minds and give them voice reach and impact drawing on a backlist dating to 1893 voices revived makes high quality peer reviewed scholarship accessible once again using print on demand technology this title was originally published in 1989

Hearings, Reports and Prints of the Joint Committee on Atomic Energy 1968

this book comprises a collection of authors individual approaches to the relationship between nature science and art created with the use of computers discussing issues related to the use of visual language in communication about biologically inspired scientific data visual literacy in science and application of practitioner s approach provided by publisher

The Atomic West 2011-12-01

rocket states crosses the disciplines of cold war studies american literature american studies and cultural studies the particular attraction of this study lies in the combination of its range close textual and visual analysis of the correlations between land and weaponry set firmly within its political and cultural contexts with its unique analytical approach the book offers a synthesis between history theories of technology theories of space popular culture literary study and military science it illuminates a variety of literary texts from key writers and thinkers such as pynchon stephen king norman mailer and tom wolfe while also invoking figures like nikola tesla james webb batman and ronald reagan organised topographically according to how missile technology manifests itself differently in particular locations rocket states s geographical targets are colorado kansas cape canaveral and new york variously titled excavation preservation evacuation and transmission it advances through these states roughly chronologically beginning in the late 1940s and early 1950s and coming to an end in the first part of the 21st century collignon s argument is concerned with identifying the recurring figures and fantasies of the cold war the dome or parabola as sheltering techno form the fictions of total security adapting to constantly changing targeting strategies gadget love closed freezing worlds as such rocket states analyses by what processes the cold war is frequently literalised in its weapons installations and how these facilities in turn shape dreams of containment survival escape techno supremacy

Annual Report to Congress of the Atomic Energy Commission 1967

the story of matter and the history of the cosmos from the perspective of a single oxygen atom told with the insight and wit of one of the most dynamic physicists and writers working today through this astonishing work he manages to stoke wonder at the powers and unlikely events that conspired to create our solar system our ecosystem and us

Radiation Safety and Major Activities in the Atomic Energy Programs 1955

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Atomic Energy Research 1961

the diffusion or migration of atoms in matter of whatever form is a basic consequence of the existence of atoms in metals atomic diffusion has a well established position of importance as it is recognized that there are few metallurgical processes which do not embody the diffusion of one or more of the constituents as regards semiconductors any thermal annealing treatment involves atomic diffusion in semiconductor technology diffusion processes provide a vital and basic means of fabricating doped structures notwithstanding the importance of diffusion in the preparative processes of semiconductor structures and samples the diffusion based aspects have acquired an empirical outlook verging almost on alchemy the first attempt to present a systematic account of semiconductor diffusion processes was made by boltaks 11 in 1961 during the decade since boltaks book appeared much work germane to understanding the atomic mechanisms responsible for diffusion in semiconductors has been published the object of the present book is to give an account of and to consolidate present knowledge of semiconductor diffusion in terms of basic concepts of atomic migration in crystalline lattices to this end exhaustive compilations of empirical data have been avoided as these are available elsewhere 2 31 attention has been limited to considering evidence capable of yielding insight into the physical processes concerned in atomic diffusion

Major Activities in the Atomic Energy Programs 1958

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Atomic Energy Research in the Life and Physical Sciences 1961

atomic age america looks at the broad influence of atomic energy focusing particularly on nuclear weapons and nuclear power on the lives of americans within a world context the text examines the social political diplomatic environmental and technical impacts of atomic energy on the 20th and 21st centuries with a look back to the origins of atomic theory

<u>Atomic Energy Research, Life and Physical Sciences, Reactor Development, Waste Management, 1961, Special Report 1962</u>

in 1974 india exploded an atomic device in may 1998 the new bjp government exploded several more encountering in the process domestic plaudits but international condemnation and a nuclear arms race in south asia this book is the first serious historical account of the development of nuclear power in india and of how the bomb came to be made the author questions orthodox interpretations implying that it was a product of the indo pakistani conflict instead he suggests that the explosions had nothing to do with national security as conventionally understood instead he demonstrates the linkages that existed between the two apparently separate discourses of national security and national development and explores their common underlying basis in postcolonial states the result is a remarkable book that breaks new ground in integrating comparative politics international relations and cultural studies

Materials Interfaces 1992-10-31

persuasive and based on deep research atomic awakening taught me a great deal nature the american public s introduction to nuclear technology was manifested in destruction and death with hiroshima and the cold war still ringing in our ears our perception of all things nuclear is seen through the lens of weapons development nuclear power is full of mind bending theories deep secrets and the misdirection of public consciousness some deliberate some accidental the result of this fixation on bombs and fallout is that the development of a non polluting renewable energy source stands frozen in time outlining nuclear energy s discovery and applications throughout history mahaffey s brilliant and accessible book is essential to understanding the astounding phenomenon of nuclear power in an age where renewable energy and climate change have become the defining concerns of the twenty first century

Atoms for Peace and War, 1953-1961 2021-01-08

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Public Works for Water and Power Development and Atomic Energy Commission Appropriation Bill, 1972

Semiannual Report of the Atomic Energy Commission 1956

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Biologically-Inspired Computing for the Arts: Scientific Data through Graphics 2012-04-30

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<u>Public Works for Water, Pollution Control, and Power Development, and Atomic Energy Commission</u> <u>Appropriations for Fiscal Year 1970</u> 1969

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