

Toni Morrison Nobel Lecture December 7 1993

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this book presents a new view of symbiotic technology transfer between different fields in the optical sciences for example adaptive optics were initially developed for military research programs seeking to correct the effects of atmospheric fluctuations on telescopes the technology was subsequently transferred to optical microscopes and then finally used in ophthalmic imaging devices to image photoreceptors in the living human retina this book examines various recent and historical technology transfers among the optical

sciences and attempts to answer the following questions what are the mathematical and the physical foundations of these technology advances what events and influences military requirements new journals new funding sources the internet etc made the technologies and their transfer possible what was the impact of technology transfer on the development of optical science what role did the human eye and visual system play in technology development this book examines how innovations propagate from one field to another illustrating the benefits of cross disciplinary collaboration this book is about curiosity skepticism innovation and creativity in science and technology and explores practices that advance innovation and those that inhibit innovation analyses of some selected pertinent case studies highlight the roles of unique individuals who were able to make the journey from initial concept to widespread clinical acceptance of their instruments what are the common factors of their education experiences and approaches that resulted in their inventions and innovations this book is intended to inspire and encourage those who dream of advancing the diagnostics and the treatment of diseases through new medical devices it also addresses budding startup dreamers venture capitalists research directors and funding agency administrators by providing new insights into practices that promote and inhibit innovation this book should be of interest to scientists and researchers in many fields of optics as well as technical policy makers at funding institutions

new york times bestseller magisterial a stunning account that brings to the fore the nuclear saga s surreal combination of ingenuity fate and terror publishers weekly starred review if you are an intelligent person or at the very least think you are you have to read the devil reached toward the sky this period in history has never been more relevant and frightening than it is today james patterson comprehensive and engrossing excellent oral history kirkus reviews on the 80th anniversary of the hiroshima and nagasaki bombings the pulitzer prize finalist whose work is oral history at its finest pittsburgh post gazette delivers an epic narrative of the atomic bomb s creation and deployment woven from the voices of hundreds of scientists generals soldiers and civilians the building of the atomic bomb is the most audacious undertaking in human history a rush by a small group of scientists and engineers in complete secrecy to unlock the most fundamental power of the universe even today the manhattan project evokes boldness daring and the grandest of dreams bringing an end to world war ii in the pacific as marines soldiers sailors and airmen fight overseas men and women strive to discover the atom s secrets in places like chicago berkeley oak ridge hanford and los alamos on august 6 1945 the world discovers what the end of the war and the new global age will look like the road to the first atomic bomb ends in hiroshima japan but it begins in hitler s europe where brilliant physicists are forced to flee fascism and antisemitism bringing to america their determination to harness atomic power before it falls into the führer s arsenal the devil reached toward the sky traces the breakthroughs and the breakneck pace of atomic development in the years leading up to 1945 then takes us inside the b 29 bombers carrying little boy and fat man and finally to ground zero at hiroshima and nagasaki from pulitzer prize finalist garrett m graff the devil reached toward the sky is the panoramic narrative of how ordinary people grapple with extraordinary wartime risks sacrifices and choices that will transform

the course of history engineers experiment with forces of terrifying power knowing each passing day costs soldiers lives but fearing too the consequences of their creation hundreds of thousands of workers toil around the clock to produce uranium and plutonium in an endeavor so classified that most people involved learn the reality of their effort only when it is announced on the radio by president truman the 509th composite group trains for a mission whose details are kept a mystery until shortly before takeoff when the enola gay and bockscar are loaded with bombs the crew has never seen and the civilians of two japanese cities that have been spared american attacks preserved for the sake of judging the bomb s power escape their pulverized homes into a greater hellscape drawing from dozens of oral history archives and hundreds of books reports letters and diaries from across the us japan and europe graff masterfully blends the memories and perspectives from the known and unknown key figures like j robert oppenheimer general leslie groves and president truman the crews of the b 29 bombers and the haunting stories of the hibakusha the bomb affected people both a testament to human ingenuity and resilience and a compelling drama told by the participants who lived it the devil reached toward the sky is a singular profound and searing book about the inception of our most powerful weapon and its haunting legacy

radioactivity introduction and history provides an introduction to radioactivity from natural and artificial sources on earth and radiation of cosmic origins this book answers many questions for the student teacher and practitioner as to the origins properties detection and measurement and applications of radioactivity written at a level that most students and teachers can appreciate it includes many calculations that students and teachers may use in class work radioactivity introduction and history also serves as a refresher for experienced practitioners who use radioactive sources in his or her field of work also included are historical accounts of the lives and major achievements of many famous pioneers and nobel laureates who have contributed to our knowledge of the science of radioactivity provides entry level overview of every form of radioactivity including natural and artificial sources and radiation of cosmic origin includes many solved problems to practical questions concerning nuclear radiation and its interaction with matter historical accounts of the major achievements of pioneers and nobel laureates who have contributed to our current knowledge of radioactivity

radioactivity history science vital uses and ominous peril third edition provides an introduction to radioactivity the building blocks of matter the fundamental forces in nature and the role of quarks and force carrier particles this new edition adds material on the dichotomy between the peaceful applications of radioactivity and the threat to the continued existence of human life from the potential use of more powerful and sophisticated nuclear weapons the book includes a current review of studies on the probability of nuclear war and treaties nonproliferation and disarmament along with historical insights into the achievements of over 100 pioneers and nobel laureates through multiple worked examples the book answers many questions for the student teacher and practitioner as to the

origins properties and practical applications of radioactivity in fields such as medicine biological and environmental research industry safe nuclear power free of greenhouse gases and nuclear fusion ratings and reviews of previous editions choice magazine july 2008 this work provides an overview of the many interesting aspects of the science of radioactive decays including in depth chapters that offer reminiscences on the history and important personalities of the field this book can be useful as supplemental reading or as a reference when developing course material for nuclear physics nuclear engineering or health physics lectures special attention has been given to a chapter on the role radioactivity plays in everyday life applications generally the book is well produced and will be a valuable resource many lectures can be lightened up by including material from this work summing up recommended upper division undergraduates through professionals technical program students u greife colorado school of mines usa i found the biographical accounts of the various stalwarts of physics inspirational most of them if not all had to overcome economic hardships or personal tragedies or had to do their groundbreaking work in the face of tyranny and war the biographies also highlighted the high standards of moral convictions that the scientists had as they realized the grave implications of some of their work and the potential threats to humanity this ought to inspire and motivate young men and women aspiring to be physicists even people who have been in the field for a while should find your book re energizing it certainly had that effect on me dr ramkumar venkataraman canberra industries inc meriden ct usa winner of an honorable mention in the 2017 prose awards in the category of chemistry and physics proseawards com winners 2017 award winners includes new content that explains the vital benefits that nuclear technology provides and the need to be aware and involved in worldwide efforts toward the reduction of nuclear weapon stockpiles and the elimination of the threat of nuclear weapons provides context and insights on key research over the past three centuries placing radioactivity in real world contexts supports learning via multiple solved problems that answer practical questions concerning nuclear decay nuclear radiation and the interaction of nuclear radiation with matter

on december 7 2010 mario vargas llosa was awarded the nobel prize in literature his nobel lecture is a resounding tribute to fiction s power to inspire readers to greater ambition to dissent and to political action we would be worse than we are without the good books we have read more conformist not as restless more submissive and the critical spirit the engine of progress would not even exist vargas llosa writes like writing reading is a protest against the insufficiencies of life when we look in fiction for what is missing in life we are saying with no need to say it or even to know it that life as it is does not satisfy our thirst for the absolute the foundation of the human condition and should be better vargas llosa s lecture is a powerful argument for the necessity of literature in our lives today for as he eloquently writes literature not only submerges us in the dream of beauty and happiness but alerts us to every kind of oppression

a biography of the electron and a history of the microphysical world that it opened up

a biographical bibliographical guide to the writers who have received the nobel prize in literature provides entries for each nobel prize laureate entries also include the nobel prize in literature presentation speech for the corresponding year and the banquet speech given by the nobel prize laureate

published for the first time in a beautiful collectible edition the essential lecture delivered by the 2022 recipient of the nobel prize in literature annie ernaux j écrirai por venger ma race it was as a young woman that annie ernaux first wrote these words in her diary giving a name to her purpose in life as a writer she returns to them in her stirring defense of literature and of political writing in her nobel lecture delivered in stockholm on december 7 2022 to write of her own life she asserts is to shatter the loneliness of experiences endured and repressed to mine individual experience is to find collective emancipation ernaux s speech is a bold assertion of the capacity of writing to give people a sense of their own worth and of one writer s commitment to bearing witness to life its joys and its injustices includes annie ernaux s nobel lecture her nobel banquet speech a congratulatory speech by professor anders olsson chair of the nobel committee for literature and the nobel opening address by professor carl henrik heldin chairman of the board of the nobel foundation

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