

Modern Physics Bernstein

Quantum Profiles Albert Einstein The Elusive Neutrino A Palette of Particles Secrets of the Old One Bernstein's Construction of Movements Quantum Leaps Knowledge, Power and Educational Reform One Physicist's Guide to Nuclear Weapons Language, Knowledge and Pedagogy War Words: Language, History and the Disciplining of English The Power of Geographical Thinking Teacher Subject Identity in Professional Practice Physicists on Wall Street and Other Essays on Science and Society Global Developments in Literacy Research for Science Education The American Scholar Directory of Physics & Astronomy Staff Kinetic Theory in the Expanding Universe Yale Scientific The Science Teacher *Jeremy Bernstein* *Jeremy Bernstein* *Jeremy Bernstein* *Mark L. Latash* *Jeremy Bernstein* *Rob Moore* *Jeremy Bernstein* *Frances Christie Urszula Clark* *Clare Brooks* *Clare Brooks* *Jeremy Bernstein* *Kok-Sing Tang* *William Allison Shimer* *Jeremy Bernstein*

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what was albert einstein like as a person how did j robert oppenheimer s religious background impact his scientific endeavors why did john stewart bell get into physics in the first place prolific science writer jeremy bernstein has followed up on his original quantum profiles published in 1990 with seven added profiles wendell furry philipp frank j robert oppenheimer victor weisskopf tom lehrer max jammer and robert serber the profiles on john stewart bell john wheeler and albert einstein from the first edition have been revised and expanded as well bernstein presents each profile carefully and the context provided in these historical profiles is revolutionary in each approach bernstein s unique academic and social background allows readers to fully grasp the character profiles in each chapter with a conversational writing style bernstein lets readers get to know these ten prolific physicists from personalities to historical and scientific significance in a whole new way

albert einstein part of oxford s ongoing series oxford scientists is an insightful and entertaining biography of a man whose scientific intuition was so powerful that almost everything he touched in physics turned to gold bernstein explains major theories and breakthroughs and traces the paths that brought einstein to his discoveries such as the way his findings on light and the principle of equivalence led him to his famous theory of relativity

jeremy bernstein guides readers through high energy physics from early twentieth century atomic models to leptons mesons quarks and the newly discovered higgs boson drawing them into the excitement of a universe where 80 percent of all matter has never been identified from molecules to galaxies the more we discover the less we seem to know

beginning on the 18th of march 1905 at approximately eight week intervals the noted german physics journal annalen der physik received three hand written manuscripts from a relatively unknown patent examiner in bern the patent examiner was the twenty six year old albert einstein and the three papers would set the agenda for twentieth century physics a fourth short paper was received by the journal on the 27th of september it contained einstein s derivation of the formula $E = mc^2$ these papers with their many technological ramifications changed our lives in the twentieth century and beyond while to a professional physicist the mathematics in these papers is quite straight forward the ideas behind the mathematics are not in fact none of einstein s contemporaries fully understood what he had done the goal of this book is to make these ideas accessible to a general reader with no more mathematics than one learns in high school praise for book with wonderfully chosen digressions and some sophisticated physics plus the minimum amount of math to support it jeremy bernstein has produced a charming account of einstein s epoch making papers of 1905 here is surely the thinking person s guide to einstein s miracle year owen gingerich harvard smithsonian center for astrophysics author the book nobody read chasing the revolutions of nicolaus copernicus why are physicists celebrating the centenary of einstein s miracle year in this gem of a book and in simple words bernstein explains how young albert in that one year set the foundation to a century of progress in physics sheldon l glashow winner of the 1979 nobel prize in physics professor boston university

nikolai aleksandrovich bernstein was one of the great neuroscientists of the twentieth century and highly respected by western scientists even though most have never read his most important book entitled on the construction of movements bernstein s construction of movements the original text and commentaries is the first english translation it supplements the translated text with a series of commentaries by scientists who knew bernstein personally as well as leaders in related fields including physics motor control and biomechanics while written in 1947 bernstein s book is anything but obsolete making this english translation and accompanying commentaries an invaluable text the translated original text presents in detail bernstein s views on the evolutionary history of biological movement and his multi level hierarchical scheme of the construction of movements in higher animals including humans the

following commentaries address bernstein s personality the history of the book and current views on different aspects of neuroscience covered in bernstein s text ultimately they present a book within the book to showcase how bernstein s heritage has developed over the past years this classic available for the first time to an english speaking audience will prove beneficial to students instructors and experts of neuroscience physics neurophysiology motor control motor rehabilitation biomechanics dynamical systems and related fields

quantum leaps is a lively erudite book on a subject that bernstein has lived with for most of its history his experience and deep understanding are apparent on every page including recollections of encounters with the theory and the people responsible for it jeremy bernstein s account ranges from the cross pollination of quantum mechanics with marxist ideology and christian and buddhist mysticism to its influence on theater film and fiction

this book is made up of a selection of writings from an international team of scholars highlighting the contribution made to the field of educational policy and educational policy research by basil bernstein s work on the sociology of pedagogy these contributors explore analyse and engage with contemporary political reforms of education contemporary pedagogic debates and the changing nature of professional knowledge relationships and structures the subjects covered include particular concepts such as voice research the significance of social class in relation to the language schooling and home cultures differences between official and pedagogic recontextualising fields formation of different types of identities the construction of the learner formation of teacher identities and use of pedagogic discourses analysis of performance based educational reforms and its impact on pedagogy

one physicist s guide to nuclear weapons presents a truly global look at the history use and issues surrounding nuclear weapons from the perspective of physicist and writer jeremy bernstein a first hand witness to the development and science of nuclear weapons he is in a unique position to highlight the ways in which nuclear weapons work with a writing style that is suitable for lay readers and scientists alike bernstein brings the reader on a journey from the nevada nuclear testing fields in the 1950 s to the present day situations in iran and north korea while delving into the physics and science behind the bomb with an introduction by sir chris llewellyn smith this book is a testament to the last seventy 70 years of the nuclear age affecting every human being on the planet

an in depth exploration of the nature of language knowledge and pedagogy providing a progressive analysis of knowledge structures at work in educations institutions

debates about the nature of literacy and literacy practices have been conducted extensively in the last fifteen years or so the fact that both previous and current british governments have effectively suppressed any real debate makes the publication of this book both timely and important here urszula clark stresses the underlying ideological character of such debates and

shows that they have deep historical roots she also makes the point that issues regarding the relationship between language and identity especially national identity become sharply focused at times of crisis in that identity by undertaking a comparison with other major english speaking countries most notably australia new zealand and the usa clark shows how these times of crisis reverberate around the globe

in this book geography educators from around the globe discuss their research into the power of geographical thinking and consider successful strategies to implement improve and advance geography education in research and practice it addresses key topics in geography education such as multicultural competence the role of teachers the geography curriculum spatial thinking geographic information systems geocapabilities and climate change at a global level the contributors and editors bring together the most advanced collection of research and discussion surrounding issues in geography education the book will be of interest to geography education researchers worldwide including academics at university and teachers in schools as well as professional geographers with an interest in education

teacher subject identity in professional practice focuses on a key but neglected element of a teacher s identity that of their subject expertise studies of teachers professional practice have shown the importance of a teacher s identity and the extent to which it can affect their resilience commitment and ultimately their effectiveness drawing upon narrative research undertaken with a range of teachers over a period of 14 years the book explores how subject expertise can play a significant role in teacher identity acting as a professional compass guiding teachers at all levels of their professional practice it reveals powerful individual stories of meaning making which highlight the dynamic importance of teachers subject expertise the book s metaphor of a professional compass goes to the heart of teacher professionalism and provides a valuable mechanism to enable teachers to respond to challenges they face in their daily practice it enables teachers to consider the moral dimensions of their practice and can constitute a significant component in professional formation and identity throughout the book the importance of subject expertise for teachers professional practice is explored at a range of scales from the classroom to broad education policy and at different stages of a teacher s career which offers readers a deeper understanding of the importance of subject expertise for teachers teacher subject identity in professional practice makes a significant contribution to an under researched area it identifies the role and significance of teachers subject expertise as a dimension of their teacher identity the book is key reading for teacher educators policy makers and researchers with an interest in teachers professional development and practice

over the years jeremy bernstein has been in contact with many of the world s most renowned physicists and other scientists many of whom were involved in politics literature and language in this diverse collection of essays he reflects on their work their personal relationships their motives and their contributions even for those people he writes about that he did not know

personally he provides important insights into their lives and work and questions their character their decisions and the lives they led in the first three essays professor bernstein looks at economic theory and how some physicists who developed interesting economic models based on derivatives and hedge funds almost led to the country into bankruptcy in later essays he discusses a suspect visit to poland by the great heisenberg during the nazi era a visit that there is almost nothing written about included also are essays on ancient languages and a nuclear weapons program in south africa that was supposedly dismantled in one particularly humorous essay he describes how an ill conceived manned spaceship to be powered by an atomic bomb was being developed by some of the country s most powerful intellects the project never got off the ground dipping into these pages is like rummaging around in the mind of a genius who has a potpourri of interests and an abundance of fascinating experiences bernstein has not only rubbed elbows with some of the finest minds in world he has worked and played with them he has sometimes mourned with them and laughed at them his sharp wit and even sharper analysis make for a fascinating read

this book highlights recent developments in literacy research in science teaching and learning from countries such as australia brazil china finland germany hong kong new zealand norway singapore spain south africa sweden taiwan and the united states it includes multiple topics and perspectives on the role of literacy in enhancing science teaching and learning such as the struggles faced by students in science literacy learning case studies and evaluations of classroom based interventions and the challenges encountered in the science classrooms it offers a critical and comprehensive investigation on numerous emerging themes in the area of literacy and science education including disciplinary literacy scientific literacy classroom discourse multimodality language and representations of science and content and language integrated learning clil the diversity of views and research contexts in this volume presents a useful introductory handbook for academics researchers and graduate students working in this specialized niche area with a wealth of instructional ideas and innovations it is also highly relevant for teachers and teacher educators seeking to improve science teaching and learning through the use of literacy

this graduate research level text is a self contained exposition of the applications of kinetic theory to basic problems in modern cosmology such as the role of stable and unstable massive neutrinos and the theory of cosmological helium production there has been rapid development of the theory of the origin and evolution of the universe in recent years stimulated in large part by new observations and theories in astrophysics and particle physics this book takes a different approach and studies what can be concluded from the application to cosmological problems of kinetic theory and in particular the boltzmann equation and its solutions the book begins with a brief survey of the necessary relativity cosmodynamics and kinetic theory before going on to discuss specific problems such as the role of stable and unstable massive neutrinos electron positron annihilation and the theory of cosmological helium production the focus is in

obtaining both theoretical understanding and concrete numerical results

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