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circuits electromagnetic waves and electric and magnetic fields in matter taking a non traditional approach the textbook focuses on fundamental questions from different frames of reference mathematical concepts are introduced in parallel with the physics topics at hand making the motivations clear macroscopic phenomena are derived rigorously from microscopic phenomena with hundreds of illustrations and over 300 end of chapter problems this textbook is widely considered the best undergraduate textbook on electricity and magnetism ever written

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in this fascinating volume today s foremost scientists discuss their own versions and visions of einstein how he has influenced their worldviews their ideas their science and their professional and personal lives these twenty four essays are a testament to the power of scientific legacy and are essential reading for scientist and layperson alike contributors include roger highfield on the einstein myth john archibald wheeler on his meetings with einstein gino c segrè lee smolin and anton zeilinger on einstein s difficulties with quantum theory leon m lederman on the special theory of relativity frank j tipler on why einstein should be seen as a scientific reactionary rather than a scientific revolutionary

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

a to z of physicists updated edition focuses not only on the lives and personalities of those profiled but also on their research and contributions to the field a fascinating and important element of this work is the attention paid to the obstacles that minority physicists had to overcome to reach their personal and professional goals through incidents quotations and photographs the entries portray something of the human face which is often lost in books on science and scientists a to z of physicists updated edition features more than 150 entries and 51 black and white photographs culturally inclusive and spanning the whole range of physicists from ancient times to the present day this is an ideal resource for students and general readers interested in the history of physics or the significant aspects of the personal and professional lives of important physicists people covered include archimedes ca 285 212 bce homi jehangir bhabha 1909 1966 pavel alekseyevich cherenkov 1904 1990 marie curie 1867 1934 george gamow 1904 1968 tsung dao lee 1926 present lise meitner 1878 1968 yuval ne eman 1925 2006 johannes stark 1874 1957 nikola tesla 1856 1943

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a fascinating account of the dramatic history of a revolutionary medical breakthrough that began with the detection of magnetic resonance in molecular beams by isidor rabi

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this updated second edition of notable twentieth century scientists provides biographies of approximately 1 600 scientist in the natural physical and applied sciences including astronomy biology botany chemistry earth science mathematics medicine physics technology zoology computer science ecology engineering and environmental science entries highlight name birth death dates nationality and primary specialization run from 400 2500 words list publications and feature a section of further reading all five volumes of the set begin with a list of entries and a chronology of major advances and volume five ends with several indexes based on the scientist s specialization gender nationality ethnicity and subject over 400 scientists garner photographs diversity and internationalism are hallmarks of the set suitable for high school and college c book news inc

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