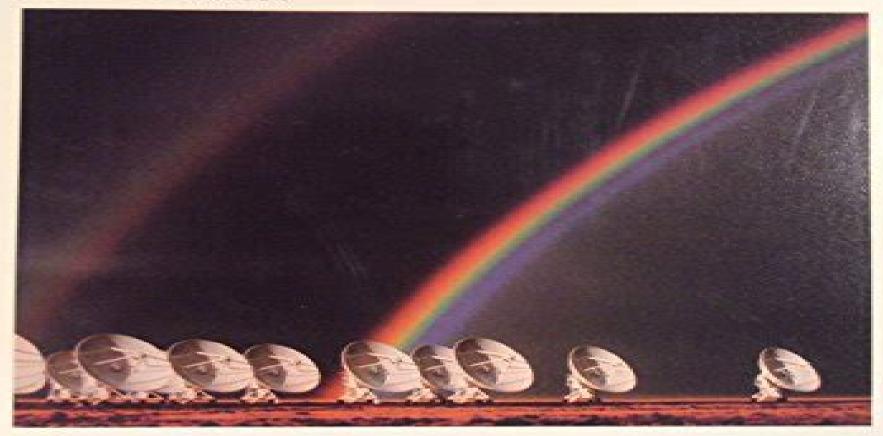
EINSTEIN'S LEGACY

JULIAN SCHWINGER



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Julian Schwinger was a nuclear physicist turning to classical electrodynamics after World War II In the years after the war he was the first to renormalize quantum electrodynamics Subsequently he presented the most complete formulation of quantum field theory and laid the foundations for the electroweak synthesis of Glashow Weinberg and Salam and he made fundamental contributions to the theory of nuclear magnetic resonance to many body theory and to quantum optics He developed a unique approach to quantum mechanics measurement algebra and a general quantum action principle His discoveries include Feynman's parameters and Glauber's coherent states in later years he also developed an alternative to operator field theory which he called Source Theory reflecting his profound phenomenological bent His late work on the Thomas Fermi model of atoms and on the Casimir effect continues to be an inspiration to a new generation of physicists This biography describes the many strands of his research life while tracing the personal life of this private and gentle genius **Julian Schwinger: The Physicist, The Teacher, And The Man** Jack Ng Yee, 1996-01-27 In the post quantum mechanics era few physicists if any have matched Julian Schwinger in contributions to and influence on the development of physics A deep and provocative thinker Schwinger left his indelible mark on all areas of theoretical physics an eloquent lecturer and immensely successful mentor he was gentle intensely private and known for being modest about everything except his physics. This book is a collection of talks in memory of him by some of his contemporaries and his former students A Klein F Dyson B DeWitt W Kohn D Saxon P C Martin K Johnson S Deser R Finkelstein Y J Ng H Feshbach L Brown S Glashow K A Milton and C N Yang From it one can get a glimpse of Julian Schwinger the physicist the teacher and the man Altogether this book is a must for all physicists physics students and others who are interested in great legends The Quantum Beat Fouad G. Major, 2013-03-09 One of the indicators of the level of technological development of a society has been throughout history the precision of clocks it was able to build This book examines the physical principles underlying the workings of clocks from the earliest mechanical clocks to the present day sophisticated clocks based on the properties of individual atoms Intended for non specialists with some knowledge of physics or engineering the book treats the material in a broad intuitive manner with a minimum of mathematical formalism The presentation covers a broad range of salient topics relevant to the measurement of frequency and time intervals The main focus is on electronic time keeping clocks based on quartz crystal oscillators and at greater length atomic clocks based on quantum resonance in rubidium cesium and hydrogen atoms and more recently mercury ions The book treats the revolutionary changes that the optical laser has wrought on atomic standards through laser cooling and optical pumping and it discusses the application of these clocks to global navigation in particular Loran C and the Global Positioning System The book also touches on such topics as atomic resonance line shape the relativistic Doppler effect and general notions of time including the relativity of future and past the clock paradox the Sagnac effect and finally time reversal symmetry Knowing Michael Munowitz, 2005-11 Publisher Description The British Library General Catalogue of Printed Books, 1986 to 1987 British Library, 1988 The Best Books for Academic Libraries: Science,

technology, and agriculture ,2002 Philosophy History Sophistry Dennis Rohatyn,2022-04-25 Post modernism believes in nothing not even unbelief Hence it is a genial version of nihilism and the flip side of despair Like skepticism from which it descends it is healthy insofar as it rejects all dogmas but unhealthy insofar as it substitutes its own while eating its own essence This book diagnoses this disease and offers irony as its cure What failure of nerve did to Hellenism strength of character must do for the decline of the best Humor laughter and detachment are the gifts of historical art and of Socratic science As we take refuge in the myth of truth we must realize that there is no truth in myth and no comfort in illusion except the lie of immortality Molecular Theories of Cell Life and Death Sungchul Ji, University of Medicine and Dentistry of New Jersey, 1991 Most of the chapters were written on the basis of lectures delivered at the International Colloquium on title held in Piscataway New Jersey May 1986 but some were solicited and submitted as late as mid 1989 The long delay in publication does not diminish the value here in fact some authors

Books in Series, 1876-1949 R.R. Bowker Company, 1982

Notable Twentieth-century Scientists Emily J. McMurray, 1995 Alfabetisk ordnet opslagsv rk over naturvidenskabsm nd og kvinder fra hele verden med angivelse af egne v rker og v rker om Historia de la energía Alejandro Navarro Yáñez, 2022-02-09 En la clase de Ciencias Naturales de 17 9 27 6 5 5 1905 1905 Primaria nos ense aron que la energ a es la capacidad para realizar un trabajo y nos explicaron que ni se crea ni se destruye que solamente se transforma Pero que se realmente la energ a un poder una fuerza invisible una sustancia que se puede canalizar o enlatar como una bebida carbonatada El coraz n del tomo o la transmutaci n de la materia el m vil perpetuo el reloj de Cox y la conservaci n de la energ a el big bang el universo oscuro el poder de Electro la muerte por el calor del cosmos la luz de los dioses la manzana de Newton y el secreto de Star Trek Thomas Alva Edison y las bombillas led los fantasmas y el carburante de los platillos volantes Alejandro Navarro aborda en este libro de forma magistral la historia de la energ a y las m ltiples formas en las que aparece Nos encontraremos con celebridades como Galileo Newton Franklin Marie Curie o Einstein pero tambi n con genios olvidados que contribuyeron con su curiosidad y tes n al esclarecimiento de algunas de las leyes m s importantes de la naturaleza Participaremos de sus fascinantes vidas y de sus sensacionales descubrimientos y observaremos c mo las viejas ideas acerca de la naturaleza de la energ a algunas profundamente enraizadas en el acervo cultural de la humanidad fueron evolucionando a lo largo de los siglos de la mano de estas mentes inquietas y a menudo geniales hasta ir construyendo las conexiones necesarias que han desembocado en el siglo xxi con un conocimiento que nos ha permitido convertirnos en muchos aspectos en se ores de nuestro entorno y due os de nuestra propia existencia DEL AUTOR Y SU OBRA SE HA DICHO Uno de los divulgadores m s interesantes en habla hispana J M Mulet Tomates con genes Naukas Gustar a todos los amantes de las buenas historias que sirven de excusa para aprender un poco de ciencia un libro repleto de curiosidades se disfruta desde la primera p gina Francisco R Villatoro La ciencia de la mula Francis Naukas La pregunta cient fica de hoy es Qu demonios es la electricidad Y a d nde va cuando sale de la tostadora Dave Barry

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