

FROM  
WHITE  
DWARFS  
TO BLACK  
HOLES

THE LEGACY OF  
S. CHANDRASEKHAR

EDITED BY G. SRINIVASAN

# From White Dwarfs To Black Holes The Legacy Of S Chandrasekhar

**Dmitri Rabounski, Florentin  
Smarandache ,Larissa Borissova**

## **From White Dwarfs To Black Holes The Legacy Of S Chandrasekhar:**

From White Dwarfs to Black Holes G. Srinivasan, 2000-05-15 *From White Dwarfs to Black Holes* chronicles the extraordinarily productive scientific career of Subrahmanyan Chandrasekhar one of the twentieth century's most distinguished astrophysicists Among Chandrasekhar's many discoveries were the critical mass that makes a star too massive to become a white dwarf and the mathematical theory of black holes In 1983 he shared the Nobel Prize for Physics for these and other achievements Over the course of more than six decades of active research Chandrasekhar investigated a dizzying array of subjects G Srinivasan notes in the preface to this book that the range of Chandra's contributions is so vast that no one person in the physics or astronomy community can undertake the task of commenting on his achievements Thus in this collection ten eminent scientists evaluate Chandrasekhar's contributions to their own fields of specialization Donald E Osterbrock closes the volume with a historical discussion of Chandrasekhar's interactions with graduate students during his more than quarter century at Yerkes Observatory Contributors are James Binney John L Friedman Norman R Lebovitz Donald E Osterbrock E N Parker Roger Penrose A R P Rau George B Rybicki E E Salpeter Bernard F Schutz and G Srinivasan

**Black Holes** Lawrence A. Jameson, 2002      **Quest For Perspectives: Selected Works Of S Chandrasekhar, A (With Commentary) (In 2 Vols)** Kameshwar C Wali, 2001-09-07 This invaluable book presents selected papers of S Chandrasekhar co winner of the Nobel Prize for Physics in 1983 and a scientific giant well known for his prolific and monumental contributions to astrophysics physics and applied mathematics The reader will find here most of Chandrasekhar's articles that led to major developments in various areas of physics and astrophysics There are also articles of a popular and historical nature as well as some hitherto unpublished material based on Chandrasekhar's talks at conferences Each section of the book contains annotations by the editor      *A to Z of Physicists, Updated Edition* Darryl Leiter, 2019-11-01 *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 Alessandro Volta 1745 1827 Hideki Yukawa 1907 1981      **Black Holes & Time Warps: Einstein's Outrageous Legacy (Commonwealth Fund Book Program)** Kip Thorne, 1995-01-17 Winner

of the 2017 Nobel Prize in Physics Ever since Albert Einstein's general theory of relativity burst upon the world in 1915 some of the most brilliant minds of our century have sought to decipher the mysteries bequeathed by that theory a legacy so unthinkable in some respects that even Einstein himself rejected them Which of these bizarre phenomena if any can really exist in our universe Black holes down which anything can fall but from which nothing can return wormholes short spacewarps connecting regions of the cosmos singularities where space and time are so violently warped that time ceases to exist and space becomes a kind of foam gravitational waves which carry symphonic accounts of collisions of black holes billions of years ago and time machines for traveling backward and forward in time Kip Thorne along with fellow theorists Stephen Hawking and Roger Penrose a cadre of Russians and earlier scientists such as Oppenheimer Wheeler and Chandrasekhar has been in the thick of the quest to secure answers In this masterfully written and brilliantly informed work of scientific history and explanation Dr Thorne a Nobel Prize winning physicist and the Feynman Professor of Theoretical Physics Emeritus at Caltech leads his readers through an elegant always human tapestry of interlocking themes coming finally to a uniquely informed answer to the great question what principles control our universe and why do physicists think they know the things they think they know Stephen Hawking's *A Brief History of Time* has been one of the greatest best sellers in publishing history Anyone who struggled with that book will find here a more slowly paced but equally mind stretching experience with the added fascination of a rich historical and human component Winner of the Phi Beta Kappa Award in Science

**The Oxford Guide to the History of Physics and Astronomy** J. L. Heilbron, 2005-06-03 The entries follow an elaborate organizational plan which amounts to a new classification of knowledge its institutional settings and its applications This plan is reprinted in the opening pages of the Guide Thoroughly cross referenced and accented with attractive black and white artwork no other source is as systematic and authoritative or as informative and inviting in its coverage of physics astronomy and planetary science **BOOK JACKET** [The Oxford Guide to the History of Physics and Astronomy](#) John L. Heilbron, 2005-06-03 With over 150 alphabetically arranged entries about key scientists concepts discoveries technological innovations and learned institutions the Oxford Guide to Physics and Astronomy traces the history of physics and astronomy from the Renaissance to the present

[The Encyclopedia of Science and Technology](#) James Trefil, 2001-08-24 Edited by acclaimed science writer and physicist James Trefil the Encyclopedia's 1000 entries combine in depth coverage with a vivid graphic format to bring every facet of science technology and medicine into stunning focus From absolute zero to the Mesozoic era to semiconductors to the twin paradox Trefil and his co authors have an uncanny ability to convey how the universe works and to show readers how to apply that knowledge to everyday problems

*The Physics of Extragalactic Radio Sources* David De Young, 2002 Extragalactic radio sources are among the most unusual and spectacular objects in the universe with sizes in excess of millions of light years radiated energies over ten times those of normal galaxies and a unique morphology They reveal some of the most dramatic physical events ever seen and provide essential clues to the

basic evolutionary tracks followed by all galaxies and groups of galaxies In *The Physics of Extragalactic Radio Sources* David De Young provides a clearly written overview of what is currently known about these objects A unique feature of the book is De Young s emphasis on the physical processes associated with extragalactic radio sources their evolution their environment and their use as probes to solve other astrophysical problems He also makes extensive use of the large amount of data now available from observations at x ray optical and radio wavelengths to illustrate his main points *The Physics of Extragalactic Radio Sources* will be a comprehensive introduction to the field for graduate students and a useful summary for astrophysicists

*Black Holes and Time Warps* Kip S Thorne,1994 In this masterfully written and brilliantly informed work Dr Rhorne the Feynman Professor of Theoretical Physics at Caltech leads readers through an elegant always human tapestry of interlocking themes answering the great question what principles control our universe and why do physicists think they know what they know Features an introduction by Stephen Hawking *Progress in Physics, vol. 3/2011* Dmitri Rabounski,Florentin Smarandache,Larissa Borisova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics

*The Oxford Companion to the History of Modern Science* John L. Heilbron,2003-02-14 Containing 609 encyclopedic articles written by more than 200 prominent scholars *The Oxford Companion to the History of Modern Science* presents an unparalleled history of the field invaluable to anyone with an interest in the technology ideas discoveries and learned institutions that have shaped our world over the past five centuries Focusing on the period from the Renaissance to the early twenty first century the articles cover all disciplines Biology Alchemy Behaviorism historical periods the Scientific Revolution World War II the Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies Observation and Experiment Darwinism Coverage is international tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non Western societies has modified or contributed to the dominant global science as it is currently understood Revealing the interplay between science and the wider culture the Companion includes entries on topics such as minority groups art religion and science s practical applications One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included Above all *The Oxford Companion to the History of Modern Science* is a companion to world history modern in coverage generous in breadth and cosmopolitan in scope The volume s utility is enhanced by a thematic outline of the entire contents a thorough system of cross referencing and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points Each essay has numerous suggestions for further reading all of which favor literature that is accessible to the general reader and a bibliographical essay provides a general overview of the scholarship in the field Lastly as a contribution to the visual appeal of the Companion over 100 black and white illustrations and an eight page color section capture the eye and spark the imagination *Progress in Physics, vol. 3/2016* Dmitri Rabounski, Florentin Smarandache ,Larissa Borissova, The Journal on Advanced Studies in Theoretical and

Experimental Physics including Related Themes from Mathematics      *Theory of Atmospheric Radiative Transfer* Manfred Wendisch, Ping Yang, 2012-04-16 Aimed at the senior undergraduate and graduate level this textbook fills the gap between general introductory texts offering little detail and very technical advanced books written for mathematicians and theorists rather than experimentalists in the field The result is a concise course in atmospheric radiative processes tailored for one semester The authors are accomplished researchers who know how to reach their intended audience and provide here the content needed to understand climate warming and remote sensing for pollution measurement They also include supplementary reading for planet scientists and problems Equally suitable reading for geophysicists physical chemists astronomers environmental chemists and spectroscopists A solutions manual for lecturers will be provided on [www.wiley-vch.de/supplements](http://www.wiley-vch.de/supplements)

**Indian Astronomy** S. Balachandra Rao, 2000      *Empire of the Stars* Arthur I. Miller, 2005 A history of the idea of black holes explores the tumultuous debate over the existence of this now well accepted phenomenon focusing particular attention on Indian scientist Subrahmanyan Chandrasekhar      *Eclipse: A Celestial Shadow Play* B. S. Shylaja, H. R. Madhusudan, 1999      **S. Chandrasekhar** Dilip M. Salwi, 2004 As a young man he presented a paper on astrophysics that was publicly ridiculed by the eminent astrophysicist A S Eddington However this did not stop S Chandrasekhar from becoming one of the giants of astrophysics and winning the Nobel Prize This is the story of a true polymath whose interests ranged from interstellar galaxies and neutron stars to classical music and English literature Recognised among the greatest astrophysicists of the twentieth century Chandrasekhar till his last day remained a true scientist devoted to his research his students and to sharing his knowledge with the astrophysicist community      *Discovery and Classification in Astronomy* Steven J. Dick, 2013-09-09 Astronomical discovery involves more than detecting something previously unseen The reclassification of Pluto as a dwarf planet in 2006 and the controversy it generated shows that discovery is a complex and ongoing process one comprising various stages of research interpretation and understanding Ranging from Galileo's observation of Jupiter's satellites Saturn's rings and star clusters to Herschel's nebulae and the modern discovery of quasars and pulsars Steven J Dick's comprehensive history identifies the concept of extended discovery as the engine of progress in astronomy The text traces more than 400 years of telescopic observation exploring how the signal discoveries of new astronomical objects relate to and inform one another and why controversies such as Pluto's reclassification are commonplace in the field The volume is complete with a detailed classification system for known classes of astronomical objects offering students researchers and amateur observers a valuable reference and guide

**Negative Frequency at the Horizon** Maxime Jacquet, 2018-04-26 This book is part of a large and growing body of work on the observation of analogue gravity effects such as Hawking radiation in laboratory systems The book is highly didactic skillfully navigating between concepts ranging from quantum field theory on curved space times nonlinear fibre optics and the theoretical and experimental foundations in the physics of optical analogues to the Event Horizon It presents a comprehensive field

theoretical framework for these systems including the kinematics governing the fields This allows an analytical calculation of the all important conversion of vacuum fluctuations into Hawking radiation Based on this emission spectra are computed providing unique insights into the emissions from a highly dispersive system In an experimental part the book develops a clear and systematic way to experimentally approach the problem and demonstrates the construction of an experimental setup and measurements of unprecedented sensitivity in the search for stimulation of the Hawking effect

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