

Selected Papers



S. Chandrasekhar

VOLUME

2

Radiative Transfer
and Negative Ion
of Hydrogen

Radiative Transfer And Negative Ion Of Hydrogen Selected Papers

Subrahmanyan Chandrasekhar



Radiative Transfer And Negative Ion Of Hydrogen Selected Papers:

Selected Papers, Volume 2 Subrahmanyan Chandrasekhar, 1989-07-25 This is the second of six volumes collecting significant papers of the distinguished astrophysicist and Nobel laureate S Chandrasekhar His work is notable for its breadth as well as for its brilliance his practice has been to change his focus from time to time to pursue new areas of research The result has been a prolific career full of discoveries and insights some of which are only now being fully appreciated Chandrasekhar has selected papers that trace the development of his ideas and that present aspects of his work not fully covered in the books he has periodically published to summarize his research in each area Volume 2 covers primarily the period 1940 50 and includes papers on the theory of radiative transfer and on the physics and astrophysics of the negative ion of hydrogen Of particular note are Chandrasekhar s Gibbs Lecture to the American Mathematical Society in 1946 and his Personal Account presented at a conference at Erevan in the U S S R in 1981 A foreword by T W Mullikin a distinguished scholar in the area of radiative transfer and an author s note provide a historical context for the papers 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areas of physics and astrophysics There are also articles of a popular and historical nature as well as some hitherto unpublished material based on Chandrasekhar s talks at conferences Each section of the book contains annotations by the editor **Selected Papers, Volume 6** S. Chandrasekhar, 1991-04-09 This is the first of six volumes collecting significant papers of the distinguished astrophysicist and Nobel laureate S Chandrasekhar His work is notable for its breadth as well as for its brilliance his practice has been to change his focus from time to time to pursue new areas of research The result has been a prolific career full of discoveries and insights some of which are only now being fully appreciated Chandrasekhar has selected papers that trace the development of his ideas and that present aspects of his work not fully covered in the books he has periodically published to summarize his research in each area 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 *Mathematical Constants II* Steven R. Finch, 2003 Famous mathematical constants include the ratio of circular circumference to diameter 3.14 and the natural logarithm base $e \approx 2.718$ Students and professionals can often name a few others but there are many more buried in the literature and awaiting discovery How do such constants arise and why are they important Here the author renews the search he began in his book *Mathematical Constants* adding another 133 essays that broaden the landscape Topics include the minimality of soap film surfaces prime numbers elliptic curves and modular forms Poisson Voronoi tessellations random triangles Brownian motion uncertainty inequalities Prandtl Blasius flow from fluid dynamics Lyapunov exponents knots and tangles continued fractions Galton Watson trees electrical capacitance from potential theory Zermelo's navigation problem and the optimal control of a pendulum Unsolved problems appear virtually everywhere as well This volume continues an outstanding scholarly attempt to bring together all significant mathematical constants in one place [Great Scientist in the World-2](#) Manoj Dole, Planning to study science but feeling unsure about it We've got the perfect book for you If you want to be an innovator you must read about great scientists from around the world and get inspired by their work Scientists are one of the main reasons that society has evolved to its current state The efforts of some great scientists have contributed to the modernization of the world Famous scientists like Isaac Newton and Galileo Galilei set an example for modern scientists But there's a lot we don't know about it and we're about to know all about it So if you too are a science lover and dream of changing the world with your inventions then read on and start creating Scientists around the world have contributed to the development of medicine physics chemistry and technology among other important aspects of society As a budding scientist you can either adopt a theoretical approach or a practical approach Both these methods are equally important in this field In addition research and development is necessary in all fields of scientific study even for industrial purposes So we understand the importance of scientists let's take a look at some of the most brilliant minds and their contributions Finally you can even leave a comment to let us know how many of them you already know Scientists of all fields are very important for the progress of the society Some have completely changed the way the scientific community views science So let's have a look at the greatest scientists known in the world **Journal of Astrophysics and Astronomy**, 1996 [Guide to Information Sources in Mathematics and Statistics](#) Martha A. Tucker, Nancy D. Anderson, 2004-09-30 This book is a reference for librarians mathematicians and statisticians involved in college and research level mathematics and statistics in the 21st century We are in a time of transition in scholarly communications in mathematics practices which have changed little for a hundred years are giving way to new modes of accessing information Where journals books indexes and catalogs were once the physical

representation of a good mathematics library shelves have given way to computers and users are often accessing information from remote places Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics These are grouped by type of material Publication dates range from the 1800 s onwards Hundreds of electronic resources some online both dynamic and static some in fixed media are listed among the paper resources Amazingly a majority of listed electronic resources are free Physics 1981-1990 Tore Fr[ø]ngsmyr, G[er]sta Ekspong, Nobelstiftelsen, 1993

Fluid Flows to Black Holes D. J. Saikia, 2011 This unique book contains a biographical portrait accounts of Chandrasekhar's role and impact on modern science historical perspectives and personal reminiscences several of which appeared in *Physics Today* and reviews by leading experts in areas which Prof Chandrasekhar pioneered The reviews which appeared in the *Bulletin of the Astronomical Society of India* are either based on papers presented by scholars in the Chandrasekhar Centennial Symposium at the University of Chicago during 15 Oct-17 October 2010 or were additional reviews covering topics not represented at the conference by other distinguished astrophysicists It provides a glimpse of some of the most exciting areas of modern astrophysics as a tribute to Prof Chandrasekhar on his birth centenary **Recent**

Publications in Natural History, 1990 Astronomers and Cosmologists Dean Miller, 2014-01-01 In this book a breakdown of the life and work of some of history's pioneers in the study of astronomy and cosmology are thoroughly explored This volume provides excellent biographical sketches for trailblazers in the sciences Articles are devoted to specific scientists covering the contributions to their field specifically addressing how their research discoveries and inventions impacted human understanding and experience This historical review includes scientists from around the world and throughout the centuries with a chapter specifically devoted to the top scientific contributors of the 21st century

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Publications, Reports, and Papers for 1968 from Oak Ridge National Laboratory F. M. O'Hara, Ann S. Klein, 1969 **The British National Bibliography** Arthur James Wells, 1998 *American Journal of Physics*, 1990 **Papers Published in Journals and Presented at Meetings, Reports Issued and Theses Completed, by ORNL Staff Members** Oak Ridge National Laboratory, 1968

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