



# Red Giants and White Dwarfs

*The Evolution of Stars,  
Planets and Life*

Robert Jastrow

Director, Goddard Institute for Space Studies

# Red Giants White Dwarfs 1st Edition

**Raymond T. Pierrehumbert**



## Red Giants White Dwarfs 1st Edition:

**Red Giants and White Dwarfs** Robert Jastrow, 1990 Presents discussions regarding the origin of the universe the life and death of stars and the origin of the earth and life Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1970 **UGC-NET/JRF/SET Teaching and Research Aptitude (General Paper - I)** Vikas Experts, Test Prep for UGC NET JRF SET Teaching and Research Aptitude *From Thermal Field Theory to Neural Networks* Tanguy Altherr, Gabriele Veneziano, 1996 Tanguy Altherr was a Fellow in the Theory Division at CERN on leave from LAPP CNRS Annecy At the time of his accidental death in July 1994 he was only 31 A meeting was organized at CERN covering the various aspects of his scientific interests thermal field theory and its applications to hot or dense media neural networks and its applications to high energy data analysis Speakers were among his closest collaborators and friends **Supernovae** Paul Murdin, Lesley Murdin, 1985-11-07 This revised 1985 edition tells the story of supernovae capturing the flavour of ancient astronomy The Lives of Stars Ken Croswell, 2009 Uses photographs taken in space to introduce a variety of star types and explains how stars are born live and die Suggested level primary intermediate Physical Processes in Red Giants I. Iben, Alvio Renzini, 2012-12-06 In recent years it has become clear that the red giant phase is one of the most dramatic periods in a star's life when all of its parts become involved in ways that have both direct and indirect observational consequences This is most particularly true of low and intermediate mass stars during the second ascent of the giant branch Such stars bring to their surfaces products of nucleosynthesis currently taking place in their deep interiors they pulsate as Mira variables develop extended outward flowing atmospheres that may exhibit maser properties and shed great quantities of matter sometimes highly processed into the inter stellar medium The manner in which processed matter is brought to the surface is far from being completely explained and the precise mechanism or mechanisms whereby matter is ejected from the stellar surface whether by deposition of Alfvén waves radiation pressure on grains or as a consequence of some large scale envelope instability has yet to be elucidated to everyone's satisfaction The purpose of the second workshop in Astrophysics organized by the Advanced School of Astronomy was to bring together experts on all the physical processes occurring in red giants in an effort to emphasize the interrelatedness of these individual processes and to encourage a dialogue among experts that might serve to initiate a synthesis or at least sharpen our understanding of the most important problems to address in the future The Birth of Modern Astronomy Harm J. Habing, 2019-03-23 This richly illustrated book discusses the ways in which astronomy expanded after 1945 from a modest discipline to a robust and modern science It begins with an introduction to the state of astronomy in 1945 before recounting how in the following years initial observations were made in hitherto unexplored ranges of wavelengths such as X radiation infrared radiation and radio waves These led to the serendipitous discovery of more than a dozen new phenomena including quasars and neutron stars that each triggered a new area of research The book goes on to discuss how after 1985 the further systematic exploration of the earlier discoveries led

to long term planning and the construction of new large telescopes on Earth and in Space Key scientific highlights described in the text are the detection of exoplanets 1995 the unexpected discovery of the accelerated expansion of the Universe 1999 a generally accepted model for the large scale properties of the Universe 2003 and the CDM theory 2005 that explains how the galaxies and stars of the present Universe were formed from minute irregularities in the almost homogenous gas that filled the early Universe All these major scientific achievements came at a price namely the need to introduce two new phenomena that are as yet unexplained by physics inflation and dark energy Probably the deepest unsolved question has to be Why did all of this start with a Big Bang **My First Book About Outer Space** Patricia J. Wynne, Donald M. Silver, 2015-02-18

Where do we live among the galaxies what did people think before they could study the sky with telescopes and what happened to Pluto Thirty nine illustrations to color answer these and other questions about our Solar System and beyond Entertaining easy to understand captions explain crater formation constellations weightlessness space junk and other fascinating subjects Suitable for ages 8 12

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Statistical Mechanics discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents The book emphasizes the equilibrium states of physical systems The text first details the statistical basis of thermodynamics and then proceeds to discussing the elements of ensemble theory The next two chapters cover the canonical and grand canonical ensemble Chapter 5 deals with the formulation of quantum statistics while Chapter 6 talks about the theory of simple gases Chapters 7 and 8 examine the ideal Bose and Fermi systems In the next three chapters the book covers the statistical mechanics of interacting systems which includes the method of cluster expansions pseudopotentials and quantized fields Chapter 12 discusses the theory of phase transitions while Chapter 13 discusses fluctuations The book will be of great use to researchers and practitioners from wide array of disciplines such as physics chemistry and engineering Red Dwarfs David S. Stevenson, 2019-09-11 This thought provoking book looks at the nature of red dwarf systems as potential homes for life Realistically what are the prospects for life on these distant worlds Could life evolve and survive there How do these planetary surfaces and geologies evolve How would life on a planet orbiting a red dwarf differ from life on Earth And what are the implications for finding further habitable worlds in our galaxy The

author provides readers with insight into the habitability of planets and how this changes as time progresses and the central star evolves Since the previous 2013 edition *Under a Crimson Sun* there has been a rise in newly discovered planets orbiting red dwarfs accompanied by controversial areas of research that test what we think we know about these systems This revised edition delves into the wealth of new material uncovered since that date It explains the often conflicting results and analyses put forward and clarifies our understanding of these exciting new worlds The chapters explore the full width of relevant scientific discovery and speculation on the potential for red dwarf planets to host life New content includes improved atmospheric models new understandings of the impact of stellar radiation on the atmosphere of red dwarf worlds tidal locking and comparisons with terrestrial geology and climate     The Encyclopedia Britannica James Louis Garvin, Franklin Henry Hooper, Warren E. Cox, 1929     **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1967     Cosmos Carl Sagan, 1985 Based on the television series *cosmos*     Evolution of Peculiar Red Giant Stars International Astronomical Union. Colloquium, 1989-06-22 Red giant stars are evolutionarily advanced objects in the closing stages of their nuclear burning lifetime Observed with increasing spectral coverage they display a variety of unusual phenomena Many are characterized by peculiar non solar surface chemical compositions which provide otherwise unobtainable clues to interior nucleosynthesis mixing and evolution Others may have received their chemical peculiarities by mass transfer from a companion This book reports on the proceedings of the International Astronomical Union Colloquium 106 It contains discussions on many aspects of these stars combining theory and observation to interpret these objects in terms of their evolutionary history There are 20 review papers 69 abstracts and short contributed papers and a complete transcript of the valuable summary panel discussion Professional astronomers will find this book useful as a reference work which incorporates current research on the modelling and evolution of these unstable stars     Science and Invention , 1923

*Planetary Systems* Raymond T. Pierrehumbert, 2021-12-09 Not long ago the Solar System was the only example of a planetary system a star and the bodies orbiting it that we knew Now we know thousands of planetary systems and have even been able to observe planetary systems at the moment of their birth This Very Short Introduction explores this new frontier incorporating the latest research The book takes the reader on a journey through the grand sweep of time from the moment galaxies begin to form after the Big Bang to trillions of years in the future when the Universe will be a dilute soup of dim galaxies populated mostly by red dwarf stars Throughout Raymond T Pierrehumbert introduces the latest insights gained from a new generation of telescopes that catch planetary systems at the moment of formation and to the theoretical advances that attempt to make sense of these observations He explains how the elements that make up life and the planets on which life can live are forged in the interiors of dying stars and make their way into rocky planets He also explores the vast array of newly discovered planets orbiting stars other than our own and explains the factors that determine their climates Finally he reveals what determines how long planetary systems can live and what happens in their end times Very Short Introductions

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