

Stellar evolution

low- and medium-mass stars
(including the Sun)



main
sequence

red giant

"planetary"
nebula

white
dwarf

high-mass stars

nebula

main sequence

red supergiant

high-mass star

neutron
star

not to scale

very high-mass star

black
hole

Stars Their Structure And Evolution

R. J. Tayler

Stars Their Structure And Evolution:

The Structure And Evolution Of Stars J J Eldridge, Christopher Adam Tout, 2018-12-06 Stars are the fundamental observable constituents of the Universe. They are the first objects we see in the night sky; they dominate the light produced in our own and other galaxies and nucleosynthesis in stars produces all the elements heavier than helium. A knowledge of stars and their evolution is vital to understand other astrophysical objects from accreting black holes and galaxies to the Universe itself. The structure of a star can be described mathematically by differential equations derived from the principles of hydrodynamics, electromagnetic theory, thermodynamics, quantum mechanics, atomic and nuclear physics. The basic equations of a spherical star are derived in detail at an accessible level. The topics discussed include modes of energy transport, the equation of state, the physics of the opacity sources and the nuclear reactions. Attention is also given to the virial theorem, polytropic gas spheres and homology principles, and the procedure for numerical solution of the equations is outlined. This book tracks the evolution of stars from their main sequence evolution through the exhaustion of various nuclear fuels to the end points of evolution and also introduces the topic of interacting binary stars. The aim is to take the reader from the essential underlying physical principles to the doors to current research on stellar interiors.

The Stars Roger John Tayler, 1994-06-23 This textbook gives a clear account of the manner in which knowledge in many branches of physics such as gravitation, thermodynamics, atomic physics and nuclear physics can be combined to gain an understanding of the structure and evolution of stars. A major aim is to present the subject as one in which advances are still being made. The first half is an account of the observational properties of stars and a discussion of the equations that govern their structure. The second part discusses recent theoretical work on stellar evolution. The successes of the theory are stressed but attention is also drawn to phenomena that are not completely understood. This is a new edition of a widely used textbook first published in 1970. New topics include mass loss from stars and close binary stars.

The Life of Stars Giora Shaviv, 2009-10-03 It is the stars. The stars above us govern our conditions. William Shakespeare, King Lear. A Few Words about What, Why and How. The structure of the stars in general and the Sun in particular has been the subject of extensive scientific

research and debate for over a century. The discovery of quantum theory during the first half of the nineteenth century provided much of the theoretical background needed to understand the making of the stars and how they live off their energy source. Progress in the theory of stellar structure was made through extensive discussions and controversies between the giants of the field as well as brilliant discoveries by astronomers. In this book we shall carefully expose the building of the theory of stellar structure and evolution and explain how our understanding of the stars has emerged from this background of incessant debate. About hundred years were required for astrophysics to answer the crucial questions. What is the energy source of the stars? How are the stars made? How do they evolve and eventually die? The answers to these questions have profound implications for astrophysics, physics and biology and the question of how we ourselves

come to be here While we already possess many of the answers the theory of stellar structure is far from being complete and there are many open questions for example concerning the mechanisms which trigger giant supernova explosions Many internal hydrodynamic processes remain a mystery Yet some global pictures can indeed be outlined and this is what we shall attempt to do here *An Introduction to the Theory of Stellar Structure and Evolution* Dina Prialnik,2009-10-29 Using fundamental physics the theory of stellar structure and evolution can predict how stars are born how their complex internal structure changes what nuclear fuel they burn and their ultimate fate This textbook is a stimulating introduction for undergraduates in astronomy physics and applied mathematics taking a course on the physics of stars It uniquely emphasises the basic physical principles governing stellar structure and evolution This second edition contains two new chapters on mass loss from stars and interacting binary stars and new exercises Clear and methodical it explains the processes in simple terms while maintaining mathematical rigour Starting from general principles this textbook leads students step by step to a global comprehensive understanding of the subject Fifty exercises and full solutions allow students to test their understanding No prior knowledge of astronomy is required and only a basic background in physics and mathematics is necessary *The Structure and Evolution of Stars* J. J. Eldridge,Christopher A. Tout,2019 Stars are the fundamental

observable constituents of the Universe They are the first objects we see in the night sky dominate the light produced in our own and other galaxies and nucleosynthesis in stars produces all the elements heavier than helium A knowledge of stars and their evolution is vital in understanding other astrophysical objects from accreting black holes and galaxies to the Universe itself The structure of a star can be described mathematically by differential equations which can be derived from the principles of hydrodynamics electromagnetic theory thermodynamics quantum mechanics and atomic and nuclear physics The basic equations of a spherical star are derived in detail the modes of energy transport the equation of state the physics of the opacity sources and the nuclear reactions are explained Approximate solutions of the equations for stellar structure are given Attention is given to the virial theorem polytropic gas spheres and homology principles The procedure for numerical solution of the equations is outlined The evolution of a star is described from its main sequence evolution through the exhaustion of various nuclear fuels to the end points of evolution such as white dwarfs neutron stars and black holes Supernova explosions as the deaths of massive stars along with the nucleosynthesis of elements within stars are explained

Back cover **Introducing the Stars** Martin Beech,2019-03-28 This textbook introduces the reader to the basic concepts and equations that describe stellar structure Various approximation techniques are used to solve equations and an intuitive rather than rigorous approach is employed to interpret the properties of the stars The book provides step by step instructions helpful exercises and relevant historical lessons to familiarize students with key concepts and mathematical theories Based upon a series of one semester 12 weeks elective undergraduate courses offered at the University of Regina this book is intended for students who are interested in seeing how basic calculus and introductory physics can be applied to the

understanding of the stars from their formation to their death The text provides an intermediate stepping stone between lower level undergraduate classes and more specialized postgraduate texts on the subject of stellar structure *The stars : their structure and evolution* Roger J. Tayler,1972 [The Physics of Stars](#) A. C. Phillips,2013-06-05 The Physics of Stars Second Edition is a concise introduction to the properties of stellar interiors and consequently the structure and evolution of stars Strongly emphasising the basic physics simple and uncomplicated theoretical models are used to illustrate clearly the connections between fundamental physics and stellar properties This text does not intend to be encyclopaedic rather it tends to focus on the most interesting and important aspects of stellar structure evolution and nucleosynthesis In the Second Edition a new chapter on Helioseismology has been added along with a list of physical constants and extra student problems There is also new material on the Hertzsprung Russell diagram as well as a general updating of the entire text It includes numerous problems at the end of each chapter aimed at both testing and extending student s knowledge *Structure and Evolution of Single Stars* James MacDonald,2015-12-01 Structure and Evolution of Single Stars An introduction is intended for upper level undergraduates and beginning graduates with a background in physics Following a brief overview of the background observational material the basic equations describing the structure and evolution of single stars are derived The relevant physical processes which include the equation of state opacity nuclear reactions and neutrino losses are then reviewed Subsequent chapters describe the evolution of low mass stars from formation to the final white dwarf phase The final chapter deals with the evolution of massive stars **Principles of Star Formation** Peter Bodenheimer,2011-07-10 Understanding star formation is one of the key fields in present day astrophysics This book treats a wide variety of the physical processes involved as well as the main observational discoveries with key points being discussed in detail The current star formation in our galaxy is emphasized because the most detailed observations are available for this case The book presents a comparison of the various scenarios for star formation discusses the basic physics underlying each one and follows in detail the history of a star from its initial state in the interstellar gas to its becoming a condensed object in equilibrium Both theoretical and observational evidence to support the validity of the general evolutionary path are presented and methods for comparing the two are emphasized The author is a recognized expert in calculations of the evolution of protostars the structure and evolution of disks and stellar evolution in general This book will be of value to graduate students in astronomy and astrophysics as well as to active researchers in the field *Stellar Structure and Evolution* Rudolf Kippenhahn,Alfred Weigert,2012-12-06 The attempt to understand the physics of the structure of stars and their change in time their evolution has been bothering many physicists and astronomers ever since the last century This long chain of successful research is well documented not only by numerous papers in the corresponding journals but also by a series of books Some of them are so excellently written that despite their age they can still be recommended and not only as documents of the state of the art at that time A few outstanding examples are the books of R Emden 1907 A S Eddington

1926 S Chandrasekhar 1939 and M Schwarzschild 1958 But our science has rapidly expanded in the last few decades and new aspects have emerged which could not even be anticipated say 30 years ago and which today have to be carefully explored This does not mean however that our ambition is to present a complete account of the latest and most refined numerical results This can well be left to the large and growing number of excellent review articles The present book is intended rather to be a textbook that will help students and teachers to understand these results as far as possible and present them in a simple and clear manner We know how difficult this is since we ourselves have tried for the largest part of our scientific career to understand how the stars work and then to make others believe it *The Stars* R. J.

Taylor,1970-01-01 *Literature 1989, Part 1* Astronomisches Rechen-Institut,2013-11-11 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Review Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine **The Stars** Roger John Taylor,1981 **Astronomy and Astrophysics Abstracts** S. Böhme,W. Fricke,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-12-14 Astronomy and Astrophysics Abstracts which has

appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 31 contains literature published in 1982 and received before July 15 1982 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English **Nuclei in the**

cosmos V Sotiris Harissopoulos,1998 **Introduction to Stellar Structure** Walter J. Maciel,2015-09-16 This book provides a comprehensive overview of stellar structure evolution and basic stellar properties It includes integrated problems within the chapters with worked solutions In the first part of this book the author presents the basic properties of the stellar interior and describes them thoroughly along with deriving the main stellar structure equations of temperature density pressure and luminosity among others The process and application of solving these equations is explained as well as linking these results with actual observations The second part of the text describes what happens to a star over time and how to determine this by solving the same equations at different points during a star's lifetime The fate of various stars is quite different depending on their masses and this is described in the final parts of the book This text can be used for an upper level undergraduate course or an introductory graduate course on stellar physics

The Stars: Their Structure and Evolution. [The Wykeham Science Series]. R.J. Tayler,1970 [The Stars](#) Norman Hoss,1969 **Literature 1991, Part 2** Astronomisches Rechen-Institut,2013-06-29 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world

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