

# Stellar evolution

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



not to scale

# Stars Their Structure And Evolution

**R.J. Tayler**



## **Stars Their Structure And Evolution:**

**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 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* Norman Hoss, 1969

[The Stars](#) R. J. Tayler, 1970-01-01

*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 [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 Stars** Roger John Taylor,1981 *The stars : their structure and evolution* Roger J. Tayler,1972 **The Stars: Their Structure and Evolution. [The Wykeham Science Series].** R.J. Tayler,1970 **Structure and Evolution of Stars** Martin Schwarzschild,2015-12-08 With the development of nuclear physics the theory of the stellar interior entered a new phase Many new investigations have been conducted and the results published in a variety of specialized media This book brings these results together in a single volume and summarizes the present status of the theory of stellar evolution Originally published in 1958 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 *The Stars* ,1972 **The Stars** R. J. Tayler,1970

**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 *Stellar Interiors* Carl J. Hansen,Steven D Kawaler,1999-04-14 That trees should have been cut down to provide paper for this book

was an ecological affront From a book review Anthony Blond in the Spectator 1983 The first modern text on our subject Structure and Evolution of the Stars was published over thirty years ago In it Martin Schwarzschild described numerical experiments that successfully reproduced most of the observed properties of the majority of stars seen in the sky He also set the standard for a lucid description of the physics of stellar interiors Ten years later in 1968 John P Cox s tw volume monograph Principles of Stellar Structure appeared as did the more specialized text Principles of Stellar Evolution and Nucleosynthesis by Donald D Clayton and what a difference ten years had made The field had matured into the basic form that it remains today The past twenty plus years have seen this branch of astrophysics flourish and develop into a fundamental pillar of modern astrophysics that addresses an enormous variety of phenomena In view of this it might seem foolish to offer another text of finite length and expect it to cover any more than a fraction of what should be discussed to make it a thorough and self contained reference Well it doesn t Our specific aim is to introduce only the fundamentals of stellar astrophysics You will find little reference here to black holes millisecond pulsars and other sexy objects

*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

**Hybrid Artificial Intelligent Systems** Emilio Corchado, 2011-05-16 The two LNAI volumes 6678 and 6679 constitute the proceedings of the 6th International Conference on Hybrid Artificial Intelligent Systems HAIS 2011 held in Wroclaw Poland in May 2011 The 114 papers published in these proceedings were carefully reviewed and selected from 241 submissions They are organized in topical sessions on hybrid intelligence systems on logistics and intelligent optimization metaheuristics for combinatorial optimization and modelling complex systems hybrid systems for context based information fusion methods of classifier fusion intelligent systems for data mining and applications systems man and cybernetics hybrid artificial intelligence systems in management of production systems hybrid artificial intelligent systems for medical applications and hybrid intelligent

approaches in cooperative multi robot systems      **McGraw-Hill Encyclopedia of Science & Technology** Sybil P. Parker,1997 A comprehensive 20 volume reference encyclopedia on science and technology

**Stellar Structure and Evolution** Rudolf Kippenhahn,Alfred Weigert,Achim Weiss,2012-10-31 This long awaited second edition of the classical textbook on Stellar Structure and Evolution by Kippenhahn and Weigert is a thoroughly revised version of the original text Taking into account modern observational constraints as well as additional physical effects such as mass loss and diffusion Achim Weiss and Rudolf Kippenhahn have succeeded in bringing the book up to the state of the art with respect to both the presentation of stellar physics and the presentation and interpretation of current sophisticated stellar models The well received and proven pedagogical approach of the first edition has been retained The book provides a comprehensive treatment of the physics of the stellar interior and the underlying fundamental processes and parameters The models developed to explain the stability dynamics and evolution of the stars are presented and great care is taken to detail the various stages in a star s life Just as the first edition which remained a standard work for more than 20 years after its first publication the second edition will be of lasting value not only for students but also for active researchers in astronomy and astrophysics

**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 Earth, the Planets, and the Stars: Their Birth and Evolution** Kenneth Essex Edgeworth,1961

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