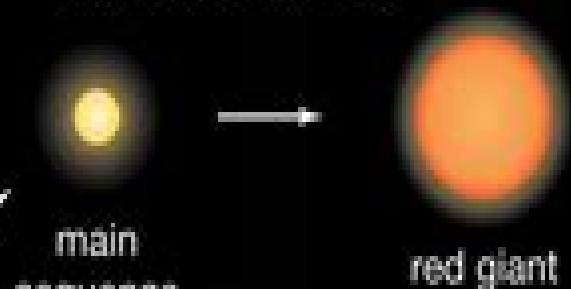


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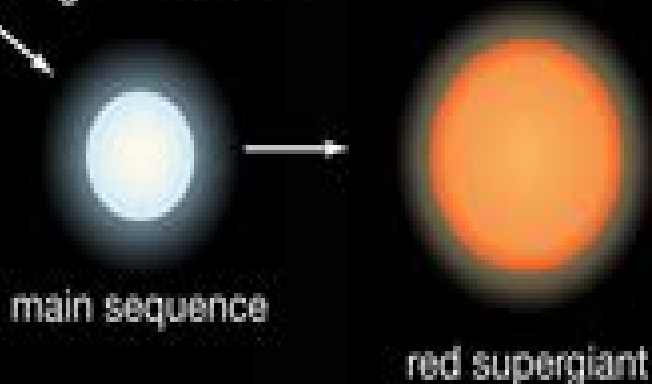
low- and medium-mass stars
(including the Sun)



"planetary"
nebula

white
dwarf

high-mass stars



supernova

high-mass star

neutron
star

very high-mass star

black
hole

not to scale

Stellar Evolution

Otto Struve



Stellar Evolution:

Stars & Stellar evolution Klaas de Boer, 2009-02-12T00:00:00+01:00 The diverse forms that stars assume in the course of their lives can all be derived from the initial conditions the mass and the original chemical composition In this textbook Stars and Stellar Evolution the basic concepts of stellar structure and the main roads of stellar evolution are described First the observable parameters are presented which are based on the radiation emerging from a stellar atmosphere Then the basic physics is described such as the physics of gases radiation transport and nuclear processes followed by essential aspects of modelling the structure of stars After a chapter on star formation the various steps in the evolution of stars are presented This leads us to brown dwarfs to the way a star changes into the red giant state and numerous other stages of evolution and ultimately to the stellar ashes such as white dwarfs supernovae and neutron stars Stellar winds stellar rotation and convection all influence the way a star evolves The evolution of binary stars is included by using several canonical examples in which interactive processes lead to X ray binaries and supernovae of type Ia Finally the consequences of the study of stellar evolution are tied to observed mass and luminosity functions and to the overall evolution of matter in the universe The authors aim at reaching an understanding of stars and their evolution by both graduate students and astronomers who are not themselves investigating stars To that end numerous graphs and sketches among which the Hertzsprung Russell diagram is the dominant one help trace the ways of stellar evolution Ample references to specialised review articles as well as to relevant research papers are included

Stellar Evolution Steff Jaywan, Stellar evolution refers to the process by which a star changes over the course of time This field of astrophysics studies the formation life and death of stars which involves a series of complex physical processes and transformations Here we outline the key stages and concepts in stellar evolution Stars form from giant molecular clouds regions rich in gas and dust Under the influence of gravity these clouds collapse and fragment leading to the formation of dense cores When a core reaches a critical density nuclear fusion ignites in its center giving birth to a protostar Once nuclear fusion stabilizes converting hydrogen into helium in the core the star enters the main sequence phase This is the longest stage in a star's life where it remains in hydrostatic equilibrium with gravitational forces balanced by radiation pressure from fusion The duration of this phase depends on the star's mass Low mass stars such as red dwarfs can remain on the main sequence for tens to hundreds of billions of years Intermediate mass stars like our Sun stay on the main sequence for about 10 billion years High mass stars such as blue giants have much shorter main sequence lifespans ranging from a few million to tens of millions of years

Stellar Evolution Amos Harpaz, 1993-06-15 This book addresses the fascinating subject of astrophysics from its theoretical basis to predominant research conducted in the field today An accomplished researcher in the field and a well known expositor the author strikes a balance that allows the serious reader to appreciate the current issues without previous knowledge of the subject Astron

Stellar Evolution Physics Icko Iben, 2012-11-29 Describes how stars respond to microscopic physics from formation through hydrogen burning phases up to

the onset of helium burning **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 *Evolution of Stars and Stellar Populations* Maurizio Salaris, Santi Cassisi, 2005-12-13 Evolution of Stars and Stellar Populations is a comprehensive presentation of the theory of stellar evolution and its application to the study of stellar populations in galaxies Taking a unique approach to the subject this self contained text introduces first the theory of stellar evolution in a clear and accessible manner with particular emphasis placed on explaining the evolution with time of observable stellar properties such as luminosities and surface chemical abundances This is followed by a detailed presentation and discussion of a broad range of related techniques that are widely applied by researchers in the field to investigate the formation and evolution of galaxies This book will be invaluable for undergraduates and graduate students in astronomy and astrophysics and will also be of interest to researchers working in the field of Galactic extragalactic astronomy and cosmology comprehensive presentation of stellar evolution theory introduces the concept of stellar population and describes stellar population synthesis methods to study ages and star formation histories of star clusters and galaxies presents stellar evolution as a tool for investigating the evolution of galaxies and of the universe in general Stellar Evolution and Nucleosynthesis Sean G. Ryan, Andrew J. Norton, 2010-01-07 An ideal bridging text for astrophysics and physics majors looking to move on from the introductory texts *Advances in Stellar Evolution* Robert T. Rood, Alvio Renzini, 1997-06-26 An understanding of how stars evolve is central to astrophysics The basic theory is well established However the subject has undergone a renaissance in recent years as powerful computers have become widely available and allowed complex evolutionary models to be developed and compared in great detail with observations from the latest instruments This timely volume presents the review articles from an international meeting in Elba Italy where experts gathered to review how our understanding of stellar evolution has advanced Topics covered include fundamentals of stellar evolution star clusters variable stars asymptotic giant branch stars degenerate stars the evolution of binary stars and chemical and galactic evolution Throughout theory and observation are

closely compared The book also emphasises the critical role stars have on our understanding of how galaxies evolve In this book we are provided with both the fundamentals and the latest research In this way it will provide an invaluable supplement for graduate students and a timely review for researchers *Observer's Guide to Stellar Evolution* Mike Inglis,2012-12-06 Stellar evolution the birth development and death of stars is central to our current understanding of astronomy but surprisingly the majority of amateur astronomers lack a full understanding of the physics of stars Current books on the market tend to be highly theoretical and off putting in *Observer's Guide to Stellar Evolution* Mike Inglis brings this subject to life in a unique way By combining a step by step introduction with suggestions for practical observations of stars at different stages in their evolution amateur astronomers regardless of their current level of knowledge will find this book fascinating and informative Accessible to every amateur astronomer regardless of background knowledge Step by step introduction to the theory of stellar evolution Includes many examples of stars at different stages in their evolution that the reader can observe for him herself Mathematics is made accessible by being presented in boxes that readers can skip over if they prefer

Stellar Evolution Arthur Jack Meadows,1967 *Principles of Stellar Evolution and Nucleosynthesis* Donald D. Clayton,1983 Donald D Clayton's *Principles of Stellar Evolution and Nucleosynthesis* remains the standard work on the subject a popular textbook for students in astronomy and astrophysics and a rich sourcebook for researchers The basic principles of physics as they apply to the origin and evolution of stars and physical processes of the stellar interior are thoroughly and systematically set out Clayton's new preface which includes commentary and selected references to the recent literature reviews the most important research carried out since the book's original publication in 1968 *Late Stages of Stellar Evolution* R.J. Tayler,2012-12-06 IAD Symposium No 66 was held in Warsaw from September 10th to September 12th 1973 in connection with the Extraordinary General Assembly of the IAD It was arranged by IAD Symposium No 35 and the Scientific Organising Committee consisted of A G Mashevitch Chairman A V Tutukov Secretary H M van Horn N Dallaporta J P Ostriker B Paczynski G Ruben E Schatzman R J Tayler and A Weigert This volume contains the full texts of all of the invited papers presented at the Symposium apart from that delivered by R P Kraft which is published in abstract because it is appearing in full elsewhere In addition the short communications given at the Symposium are published in abstract I attempted to take down all of the discussion as it occurred and all contributors to the discussion were asked to provide copies of their remarks From these sources an edited version of the discussion has been produced As the final version has not been seen by the contributors I should be held responsible for all errors At Warsaw some of the short communications did not immediately follow the invited paper to which they referred In the printed version they and any discussion relating to them are placed in the most logical position A small number of short communications which were circulated in abstract at Warsaw but which were not delivered orally are also included in the published version **Unsolved Problems in Stellar Evolution** Space Telescope Science Institute (U.S.),2000-04-13 The most comprehensive and up to

date survey available on stellar structure and evolution with a special emphasis on currently unsolved problems **Effects of Mass Loss on Stellar Evolution** C. Chiosi, R. Stalio, 2012-12-06 The IAU Colloquium No 59 The effects of mass loss on Stellar Evolution was held on September 15-19 1980 at the International Centre for Theoretical Physics Miramare Trieste Italy under the auspices of the IAU Executive Committee and the Italian National Council of Research The planning of this conference began two years ago during the IAU Symposium No 83 Mass loss and evolution of O type stars Qualicum Beach Victoria Canada when we felt that mass loss and its effects on the evolution of stars was too broad a subject for being confined to O type stars only Therefore we thought that a conference dealing with the general problem of mass loss across the whole HR diagram would have been of interest to all people working in the field The main idea was that bringing together Astronomers and Astrophysicists of the widest range of interests and expertise all in some way related to the problem of mass loss from stars would have spurred thorough discussions on the many aspects and implications of this topic We hope this goal has been achieved Furthermore the most recent observational and theoretical developments on the problem of mass loss from early type stars avoided this meeting to be a simple updating of the Qualicum Beach Symposium as far as this issue is concerned The Impact of Binary Stars on Stellar Evolution Giacomo Beccari, Henri M. J. Boffin, 2019-04-18 Stars are mostly found in binary and multiple systems with at least 50% of all solar like stars having companions this fraction approaches 100% for the most massive stars A large proportion of these systems interact and alter the structure and evolution of their components leading to exotic objects such as Algol variables blue stragglers and other chemically peculiar stars but also to phenomena such as non spherical planetary nebulae supernovae and gamma ray bursts While it is understood that binaries play a critical role in the Initial Mass Function the interactions among binary systems significantly affect the dynamical evolution of stellar clusters and galaxies This interdisciplinary volume presents results from state of the art models and observations aimed at studying the impact of binaries on stellar evolution in resolved and unresolved populations Serving as a bridge between observational and theoretical astronomy it is a comprehensive review for researchers and advanced students of astrophysics *Stellar Evolution* Otto Struve, 2015-12-08 The sum of centuries of speculation on the probable course of evolution in stars is discussed by one of the world's greatest astronomers with a full report of his own conclusions How long stars exist the relation of their luminosity to their mass the evolution of a star in relation to the main sequence the significance of rotation are among the crucial problems considered While the discussion is replete with technical detail sufficient background is included to enable the amateur astronomer or anyone with scientific training to follow the argument Originally published in 1950 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

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