

Stellar evolution



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KJ Lindholm-Leary



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Stellar Evolution Arthur Jack Meadows, 1978 *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

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 **Frontiers of Stellar Evolution** David L.

Lambert, 1991 **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 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

Understanding Stellar Evolution H J G L M Lamers, 2017-12-19

Cosmic Abundances as Records of Stellar Evolution and Nucleosynthesis in Honor of David L. Lambert Thomas G. Barnes, Frank N. Bash, 2005

Literature 1976, Part 2 S. Böhme, Ute Esser, Professor Dr. Walter Fricke, U. Güntzel-Lingner, I. Heinrich, D. Krahn, Dr. Lutz D. Schmädel, G. Zech, 2013-04-18 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 18 contains literature published in 1976 and received before March 1 1977 some older literature which was received late and which is not recorded in earlier volumes is also included

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Literature 1977, Part 2 Siegfried Böhme, Ute Esser, Walter Fricke, Inge Heinrich, Dietlinde Krahn, Lutz D. Schmadel, Gert Zech, 2013-03-14 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 20 contains literature published in 1977 and received before February 20 1978 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 Bouška Prague who surveyed journals and publications in Czech and supplied us with abstracts in English and by Prof P Brosche Bonn who supplied us with literature concerning some border fields of astronomy **Physics of Stellar Evolution and Cosmology** Howard S. Goldberg, Michael D. Scadron, 1982

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 Astronomy and Astrophysics The Equations of Stellar Structure The Gas Characteristics The Structure of a Star Computation of Stellar Evolution Evolutionary Track Binary Systems Star Formation Rotation of Stars Supernova Close Binary Systems Special Topics The Galaxy *Literature 1981, Part 1* Siegfried Böhme, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11

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Symbiotic Stars Probing Stellar Evolution Romano L. M. Corradi, Joanna Mikolajewska, T. J. Mahoney, 2003

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