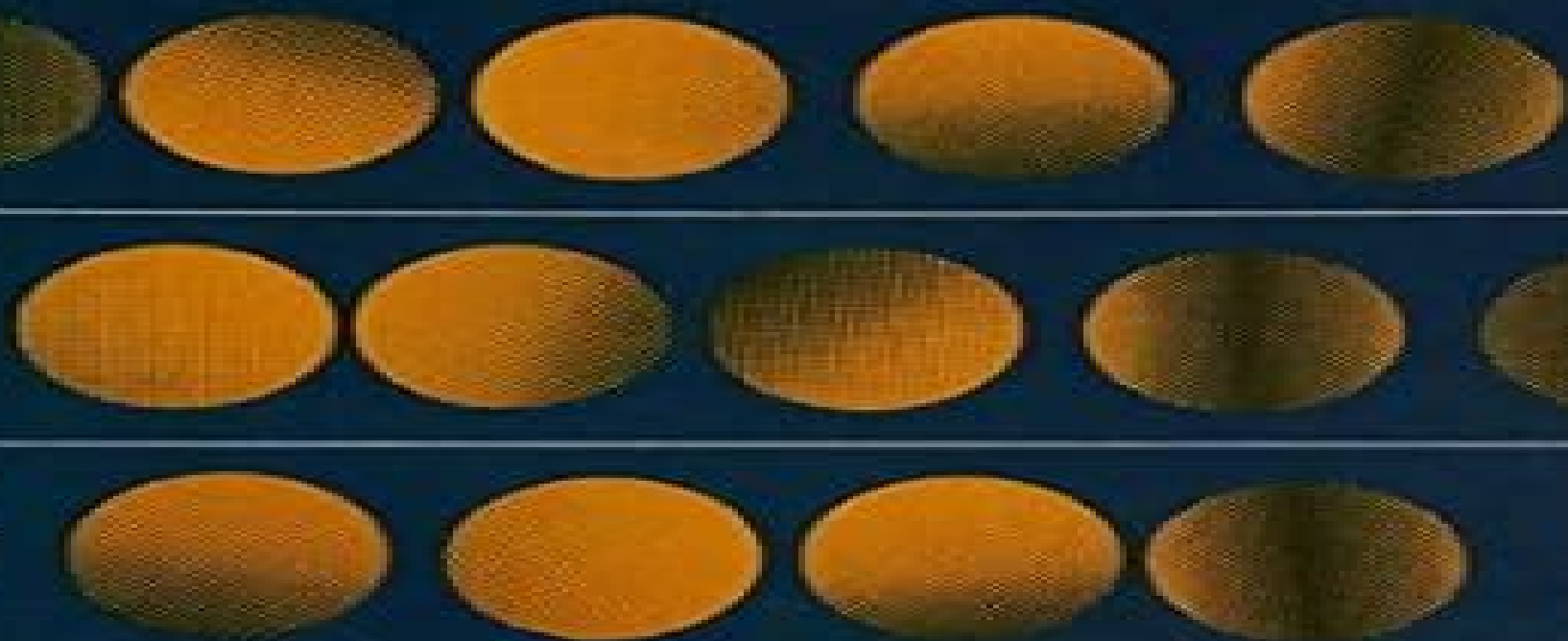


Physics of Stellar Evolution and Cosmology

Howard S. Goldberg and Michael D. Scadron



Gordon and Breach Science Publishers

Physics Of Stellar Evolution And Cosmology

**Rudolf Kippenhahn, Alfred
Weigert, Achim Weiss**



Physics Of Stellar Evolution And Cosmology:

Physics of Stellar Evolution and Cosmology Howard S. Goldberg, Michael D. Scadron, 1981 *Stellar Physics* Gennady S. Bisnovatyi-Kogan, 2011-01-04 *Stellar Physics* is an outstanding book in the growing body of literature on star formation and evolution. Not only does the author, a leading expert in the field, very thoroughly present the current state of knowledge on stellar physics, but he handles with equal care the many problems that this field of research still faces. A bibliography with well over 1000 entries makes this book an unparalleled reference source. *Stellar Evolution and Stability* is the second of two volumes and can be read as can the first volume *Fundamental Concepts and Stellar Equilibrium* as a largely independent work. It traces in great detail the evolution of protostars towards the main sequence and beyond this to the last stage of stellar evolution with the corresponding vast range from white dwarfs to supernovae explosions, gamma ray bursts and black hole formation. The book concludes with special chapters on the dynamical, thermal and pulsing stability of stars. This second edition is carefully updated in the areas of pre-supernova models, magnetorotational supernovae and the theory of accretion disks around black holes. Additional sections have been added on strange quark stars, jet formation and collimation, radiation-driven winds in strong gravitational fields and gamma ray bursts. [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, 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.

Stellar Interiors Carl J. Hansen, Steven D. Kawaler, 2012-12-06. 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 two-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.

An Introduction to the Evolution of Single and Binary Stars Matthew Benacquista, 2012-11-28. *An Introduction to the Evolution of Single and Binary Stars* provides physicists with an understanding of binary and single star evolution, beginning with a background and introduction of basic astronomical concepts. Although a general treatment of stellar structure and evolution is included, the text stresses the physical processes that lead to stellar mass compact object binaries that may be sources of observable gravitational radiation. Basic concepts of astronomy, stellar structure, and atmospheres, single star evolution, binary systems, and mass transfer, compact objects, and dynamical systems are covered in the text. Readers will understand the astrophysics behind the populations of compact object binary systems and have sufficient background to delve deeper into specific areas of interest. In addition, derivations of

important concepts and worked examples are included No previous knowledge of astronomy is assumed although a familiarity with undergraduate quantum mechanics classical mechanics and thermodynamics is beneficial **We Are Stardust** Robert Fleck,2024-11-19 This concise and accessible book explains one of the most profound and inspiring discoveries ever made namely the fact that we ourselves and all we see around us are a natural product of the workings and wonders of the Universe tied directly to distant events spread across space and time reaching back to the beginning back to the Big Bang and continuing through the birth and death of successive generations of stars Modern science has shown that in a very real and profound way we are intimately connected to the Cosmos we are as Joni Mitchell tells us in her song Woodstock stardust in a very real sense children of the stars star folk made from chemical elements starstuff cooked by nuclear reactions in stellar furnaces throughout the various stages of stellar evolution Life as we know it is an inevitable consequence of the life cycle of the stars Our story begins at the beginning with the Big Bang some 13.8 billion years ago when during the first three minutes in the history of the Universe all of the hydrogen and most of the helium by far the most abundant elements in the Universe formed from a cooling plasma of protons neutrons and electrons We then trace the life cycles of the stars from birth to death highlighting the synthesis in the stars of the heavier chemical elements so essential to life along the way touching on many of the hot topics in astrophysics today including exoplanets supernovae pulsars black holes white dwarfs and since these conditions are found throughout the Galaxy life in the Universe The reader awed by the power and beauty of this cosmic perspective will leave with a better understanding and appreciation of our true cosmic connection Surprisingly despite its significance this fascinating story of our connection to the stars has largely gone unnoticed outside a small circle of scientists Understanding that the stuff we are made of traces its origin to nuclear processes accompanying the Big Bang and thereafter to billions of years of the birth and death of generation after generation of stars is an important and beautiful story that deserves more attention Intended for a broad audience this book provides inspiring reading for all students and aficionados of science **Stellar Physics** Gennady S. Bisnovatyi-Kogan,2011-01-05 Stellar Physics is an outstanding book in the growing body of literature on star formation and evolution Not only does the author a leading expert in the field very thoroughly present the current state of knowledge on stellar physics but he handles with equal care the many problems that this field of research still faces A bibliography with well over 1000 entries makes this book an unparalleled reference source Stellar Evolution and Stability is the second of two volumes and can be read as can the first volume Fundamental Concepts and Stellar Equilibrium as a largely independent work It traces in great detail the evolution of protostars towards the main sequence and beyond this to the last stage of stellar evolution with the corresponding vast range from white dwarfs to supernovae explosions gamma ray bursts and black hole formation The book concludes with special chapters on the dynamical thermal and pulsing stability of stars This second edition is carefully updated in the areas of pre supernova models magnetorotational supernovae and the theory of accretion disks around black

holes Additional sections have been added on strange quark stars jet formation and collimation radiation driven winds in strong gravitational fields and gamma ray bursts

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 Birth and Death of the Sun George Gamow,1952

Vistas in Astronomy Arthur Beer,2016-06-03 Vistas in Astronomy Volume 3 covers the spectacular and interesting developments in the field of astronomy This book is organized into two main sections encompassing 18 chapters The first part deals first with the forces that influence stellar dynamics followed by intensive discussion on the rediscovery of planet Neptune the concept of Einstein s light deflection and design requirements for large telescopes This part also presents several astronomical instruments Auroral investigation techniques and observations of the Russian satellites The second part starts with surveys of the developments of a photoelectric technique for determination of radial velocities This part further examines the emission lines excitation in the spectra of early type stars as well as the color luminosity and evolution of the stars Topics on star formation galactic magnetic field and aspects of cosmology are also covered This book is an ideal source for astronomers and space engineers and researchers

Understanding Stellar Evolution Henny J. G. L. M. Lamers,Emily M. Levesque,2018-02-28 Understanding Stellar Evolution is based on a series of graduate level courses taught at the University of Washington since 2004 and is written for physics and astronomy students and for anyone with a physics background who is interested in stars It describes the structure and evolution of stars with emphasis on the basic physical principles and the interplay between the different processes inside stars such as nuclear reactions energy transport chemical mixing pulsation mass loss and rotation Based on these principles the evolution of low and high mass stars is explained from their formation to their death In addition to homework exercises for each chapter the text contains a large number of questions that are meant to stimulate the understanding of the physical principles An extensive set of accompanying lecture slides is available for teachers in both Keynote R and PowerPoint R formats

Star Formation in Galaxy Evolution: Connecting Numerical Models to

Reality Nickolay Y. Gnedin, Simon C. O. Glover, Ralf S. Klessen, Volker Springel, 2015-09-09 This book contains the elaborated and updated versions of the 24 lectures given at the 43rd Saas Fee Advanced Course Written by four eminent scientists in the field the book reviews the physical processes related to star formation starting from cosmological down to galactic scales It presents a detailed description of the interstellar medium and its link with the star formation And it describes the main numerical computational techniques designed to solve the equations governing self gravitating fluids used for modelling of galactic and extra galactic systems This book provides a unique framework which is needed to develop and improve the simulation techniques designed for understanding the formation and evolution of galaxies Presented in an accessible manner it contains the present day state of knowledge of the field It serves as an entry point and key reference to students and researchers in astronomy cosmology and physics

Compendium of Practical Astronomy Günter D. Roth, 2012-12-06 It is a pleasure to present this work which has been well received in German speaking countries through four editions to the English speaking reader We feel that this is a unique publication in that it contains valuable material that cannot easily if at all be found elsewhere We are grateful to the authors for reading through the English version of the text and for responding promptly for the most part to our queries Several authors have supplied us on their own initiative or at our suggestion with revised and updated manuscripts and with supplementary English references We have striven to achieve a translation of Handbuch for Sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original German text Where appropriate we have inserted footnotes to clarify material which may have a different meaning and or application in English speaking countries from that in Germany When the first English edition of this work Astronomy A Handbook translated by the late A Beer appeared in 1975 it contained 21 chapters This new edition is over twice the length and contains 28 authored chapters in three volumes At Springer's request we have devised a new title Compendium of Practical Astronomy to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages

the birth and death of the sun George Gamow, 1952 **Relativistic Astrophysics, 2** I. D. Novikov Borisovich Zel'dovich, I. D. Novikov, 1971 Though the kinematics of the evolving universe became known decades ago research into the physics of processes occurring in the expanding universe received a reliable observational and theoretical basis only in more recent years These achievements have led in turn to the emergence of new problems on which an unusually active assault has begun This second volume of Relativistic Astrophysics provides a remarkably complete picture of the present state of cosmology It is a synthesis of the theoretical foundations of contemporary cosmology which are derived from work in relativity plasma theory thermodynamics hydrodynamics and particle physics It presents the theoretical work that explains describes and predicts the nature of the universe the physical process that occur in it the formation of galaxies the synthesis of the light elements and the cosmological singularity and the theory of gravitation This book long and eagerly awaited is essential for everyone whose

work is related to cosmology and astrophysics **Cosmic Evolution** Eric J. Chaisson, Eric Chaisson, 2002-10-15 Chaisson addresses some of the most basic issues we can contemplate the origin of matter and the origin of life and the ways matter life and radiation interact and change with time He designs for us an expansive yet intricate model depicting the origin and evolution of all material structures *Stellar Physics* G.S. Bisnovatyi-Kogan, 2001-11-20 *Stellar Physics* is a rather unique book in the growing literature on star formation and evolution Not only does the author a leading expert in the field give a very thorough description of the current knowledge about stellar physics but he handles with equal care the many problems that this field of research still faces A bibliography with well over 650 entries makes this book an unparalleled source of references *Stellar Evolution and Stability* is the second volume and can be read as can the first volume as a largely independent work It traces in great detail the evolution of the protostar towards the main sequence and beyond this to the last stage of stellar evolution with the corresponding vast range from white dwarfs to the mighty supernovae explosions and blackhole formation The book concludes with special chapters on the dynamical thermal and pulsing stability of stars

Introduction to Stellar Astrophysics: Volume 3 Erika Böhm-Vitense, 1989 This book is the final one in a series of three texts which together provide a modern complete and authoritative account of our present knowledge of the stars It discusses the internal structure and the evolution of stars and is completely self contained There is an emphasis on the basic physics governing stellar structure and the basic ideas on which our understanding of stellar structure is based The book also provides a comprehensive discussion of stellar evolution Careful comparison is made between theory and observation and the author has thus provided a lucid and balanced introductory text for the student As for volumes 1 and 2 volume 3 is self contained and can be used as an independent textbook The author has not only taught but has also published many original papers in this subject Her clear and readable style should make this text a first choice for undergraduate and beginning graduate students taking courses in astronomy and particularly in stellar astrophysics

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