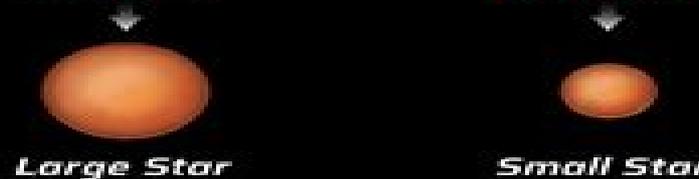


Protostar looks like a star, but its core is not yet hot enough for nuclear fusion.



Main sequence stars fuse hydrogen atoms to helium atoms in their cores.



A Red Giant is formed when a star runs out of hydrogen at its core and starts fusing hydrogen into helium outside the core, releasing energy and expanding the star.

As the Large Red Giant condenses, it heats up even further, burning the last of its hydrogen and causing the star's outer layers to expand further.



Large Red Giants are hot enough to turn the helium at their core into heavy elements like carbon.

A Supernova can be triggered

1. by the sudden re-ignition of nuclear fusion in a degenerate star.
2. by the gravitational collapse of the core of a massive star.



Once the star runs out of fuel, it collapses under gravity, and the outer layers are ejected into the vastness of space.

Protons and electrons left after a supernova are forced to combine, to produce a very dense neutron star.



The remains of the star are devoid of fuel. They consist of degenerate matter with a very high density.

White Dwarf

A white Dwarf becomes a black dwarf when it stops emitting light.

If the mass is significantly greater, the gravity will be so strong that the neutron star will shrink further to become a black hole.

# Stellar Formation

**Steven W. Stahler, Francesco Palla**



## **Stellar Formation:**

The Formation of Stars Steven W. Stahler, Francesco Palla, 2008-07-11 This book is a comprehensive treatment of star formation one of the most active fields of modern astronomy The reader is guided through the subject in a logically compelling manner Starting from a general description of stars and interstellar clouds the authors delineate the earliest phases of stellar evolution They discuss formation activity not only in the Milky Way but also in other galaxies both now and in the remote past Theory and observation are thoroughly integrated with the aid of numerous figures and images In summary this volume is an invaluable resource both as a text for physics and astronomy graduate students and as a reference for professional scientists

*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

The Formation and Early Evolution of Stars Norbert S. Schulz, 2012-05-24 Starburst regions in nearby and distant galaxies have a profound impact on our understanding of the early universe This new substantially updated and extended edition of Norbert Schulz's unique book *From Dust to Stars* describes complex physical processes involved in the creation and early evolution of stars It illustrates how these processes reveal themselves from radio wavelengths to high energy X rays and gamma rays with special reference towards high energy signatures Several sections devoted to key analysis techniques demonstrate how modern research in this field is pursued and new chapters are introduced on massive star formation proto planetary disks and observations of young exoplanets Recent advances and contemporary research on the theory of star formation are explained as are new observations specifically from the three great observatories of the Spitzer Space Telescope the Hubble Space Telescope and the Chandra X Ray Observatory which all now operate at the same time and make high resolution space based observing in its prime As indicated by the new title two new chapters have been included on proto planetary disks and young exoplanets Many more colour images illustrate attractive old and new topics that have evolved in recent years The author gives updates in theory fragmentation dust and circumstellar disks and emphasizes and strengthens the targeting of graduate students and young researchers focusing more on computational approaches in this edition

*Introduction to Fundamental Astronomy* Naveen

Basu,2025-02-20 Introduction to Fundamental Astronomy takes readers on an enlightening journey through the celestial realms exploring the principles and achievements that have shaped our understanding of the cosmos We navigate the historical milestones of astronomy from ancient astronomers like Copernicus and Kepler to modern discoveries in exoplanet research gravitational wave astronomy and cosmology Readers will explore the Copernican Revolution Newton s laws of motion and gravitation and the cosmic microwave background radiation that reveals the universe s infancy We delve into stellar evolution the quest for extraterrestrial life and the profound mysteries of dark matter and dark energy With engaging narratives vivid illustrations and accessible explanations Introduction to Fundamental Astronomy invites readers on a captivating odyssey through the wonders of the cosmos We make complex astronomical concepts accessible to enthusiasts students and anyone curious about the vastness and beauty of the universe **Astrophysics Principles** Naveen

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*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

**Researches on the Evolution of the Stellar Systems ...: The capture theory of cosmical evolution, founded on dynamical principles and illustrated by phenomena observed in the spiral nebulae, the planetary system, the double and multiple stars and clusters and the star-clouds of the Milky way** T. J. J. See, 1910 The Physics of Star Formation and Early Stellar Evolution Charles J. Lada, N.D. Kylafis, 2012-12-06 The origin of stars is one of the principle mysteries of nature During the last two decades advances in technology have enabled more progress to be made in the quest to understand stellar origins than at any other time in history The study of star formation has developed into one of the most important branches of modern astrophysical research A large body of observational data and a considerable literature now exist concerning this topic and a large community of international astronomers and physicists devote their efforts attempting to decipher the secrets of stellar birth Yet the young astronomer/physicist or more advanced researcher desiring to obtain a basic background in this area of research must sift through a very diverse and sometimes bewildering literature A literature which includes research in many disciplines and sub disciplines of classical astrophysics from stellar structure to the interstellar medium and encompasses the entire range of the electromagnetic spectrum from radio to gamma rays Often the reward of a successful foray through the current literature is the realization that the results can be obsolete and outdated as soon as the ink is dry in the journal or the conference proceeding in which they are published

**Frontiers of Stellar Evolution** David L. Lambert, 1991 **Problems of Cosmogony and Stellar Dynamics** James Jeans, 1919

**Energy Research Abstracts**, 1981-12 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

**An Introduction to Star Formation** Derek Ward-Thompson, Anthony P. Whitworth, 2015-05-14 Guiding the reader through all the stages that lead to the

formation of a star such as our Sun this advanced textbook provides students with a complete overview of star formation It examines the underlying physical processes that govern the evolution from a molecular cloud core to a main sequence star and focuses on the formation of solar mass stars Each chapter combines theory and observation helping readers to connect with and understand the theory behind star formation Beginning with an explanation of the interstellar medium and molecular clouds as sites of star formation subsequent chapters address the building of typical stars and the formation of high mass stars concluding with a discussion of the by products and consequences of star formation This is a unique self contained text with sufficient background information for self study and is ideal for students and professional researchers alike

**Neutrino Driven Neutron Star Formation** Jan Cernohorsky,1990     *Polycyclic Aromatic Hydrocarbons and Dust in Regions of Massive Star Formation* Els Peeters,2002     **Nineteenth Century and After** ,1892     *The Nineteenth Century* ,1892     *The Nineteenth Century and After* ,1892     **Publications of the Observatory of the University of Michigan** Detroit Observatory,1923

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