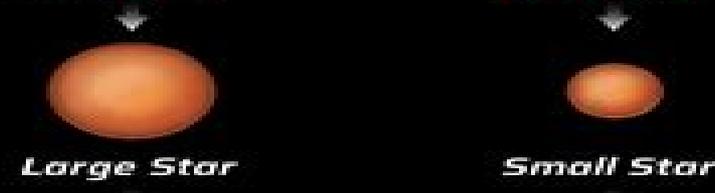


Protostar looks like a star, but its core is not yet hot enough for nuclear fusion.



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.

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

# Star Formation

**Christian Drosten**



## Star Formation:

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 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

**Star Formation, Galaxies and the Interstellar Medium** Jose Franco, Federico Ferrini, G. TENORIO-TAGLE (Ed), 1993-06-10 The enormously powerful phenomena of starbursts are examined in this book These spectacular star forming events are seen on large scales in some galaxies often triggered by galactic interactions An intriguing implication of starburst research is that active galactic nuclei AGN may not be powered by accreting black holes Instead theories are presented where compact powerhouses of dust enshrouded star formation lie at the core of AGN with supernovae exploding roughly once per year within massive nuclear concentrations of gas This book collects articles from a timely international conference in Elba Italy in 1992 these comprise a thorough review of the most important developments in galactic scale star formation since the starburst revolution of the late 1980s This text will introduce graduate students to this exciting area and keep experts abreast with rapid developments in it

**Triggered Star Formation in a Turbulent Interstellar Medium (IAU S237)** International Astronomical Union. Symposium, 2007-05-28 New stars form in the dense turbulent gas clouds of galaxies and the formation of these clouds is the subject of the IAU S237 This book is the most up to date review of all aspects of cloud and star formation and one of the few compendiums available on ISM turbulence

The Interplay Between Massive Star Formation, the ISM and Galaxy Evolution D. Kunth, 1996

**Modes of Star Formation and the Origin of Field Populations** Eva K. Grebel, Wolfgang Brandner, 2002

Literature 1980, Part 2 Siegfried

Böhme, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-04-18 **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 *Recent Star Formation and the Galaxy Collisions in NGC 520* Spencer Adam Stanford, 1990 **Bipolar Molecular Outflows in Massive Star Formation Regions** Deborah S. Shepherd, 1996 **Neutrino Driven Neutron Star Formation** Jan Cernohorsky, 1990 Helium-burning Stars and the Star-formation Histories of Dwarf Galaxies Andrew A. Cole, 1999 Star Formation in a Galactic Cluster M. M. Woolfson, 1979 **Polycyclic Aromatic Hydrocarbons and Dust in Regions of Massive Star Formation** Els Peeters, 2002 **Case Studies in Star Formation** Duncan MacKay, Mark Thompson, James Urquhart, 2023-04-13 Case Studies in Star Formation offers an overview of our current observational and theoretical understanding in the molecular astronomy of star formation The book is divided into six sections the first introduces an overview of star formation and the essential language concepts and tools specific to molecular astronomy studies Each subsequent section focuses on individual sources beginning with a description of large scale surveys The volume covers low and high mass star formation ionization and photodissociation regions and concludes with the extragalactic perspective Conventional textbooks begin with principles ending with a few convenient examples Through copious examples Case Studies reflects the reality of research which requires the creative matching of ongoing observations to theory and vice versa often raising as many questions as answers This supplementary study guide enables graduate students and early researchers to bridge the gap between textbooks and the wealth of research literature **Star Formation and Feedback in Simulations of Interacting Galaxies** Thomas J. Cox, 2004 **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

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