

Supernovae –Type II

Massive stars at the end of their lifetimes develop iron cores. The core is degenerate and grows as shell burning continues. When the mass of the core exceeds the Chandrasekhar limit, the core starts to contract rapidly.

Two types of instabilities develop. First, electrons are captured by heavy nuclei, which reduces the pressure. Second, the degenerate matter is less sensitive to temperature changes, and the temperature rises quickly. Eventually, this leads to photodisintegration of iron nuclei. This reaction is endothermic, and absorbs about 2 MeV per nucleon. Both of these processes reduce the energy and the pressure in the core, which now collapses in almost free fall.

As the temperature rises even further, highly energetic photons break the helium nuclei into protons and neutrons, a reaction which absorbs about 6 MeV per nucleon.



Supernovae Physics Astronomical Monograph

M Woodhall



Supernovae Physics Astronomical Monograph:

Physics and Evolution of Supernova Remnants Jacco Vink, 2020-11-10 Written by a leading expert this monograph presents recent developments on supernova remnants with the inclusion of results from various satellites and ground based instruments The book details the physics and evolution of supernova remnants as well as provides an up to date account of recent multiwavelength results Supernova remnants provide vital clues about the actual supernova explosions from X ray spectroscopy of the supernova material or from the imprints the progenitors had on the ambient medium supernova remnants are interacting with all of which the author discusses in great detail The way in which supernova remnants are classified is reviewed and explained early on A chapter is devoted to the related topic of pulsar wind nebulae and neutron stars associated with supernova remnants The book also includes an extended part on radiative processes collisionless shock physics and cosmic ray acceleration making this book applicable to a wide variety of astronomical sub disciplines With its coverage of fundamental physics and careful review of the state of the field the book serves as both textbook for advanced students and as reference for researchers in the field

Supernova Explosions David Branch, J. Craig Wheeler, 2017-08-10 Targeting advanced students of astronomy and physics as well as astronomers and physicists contemplating research on supernovae or related fields David Branch and J Craig Wheeler offer a modern account of the nature causes and consequences of supernovae as well as of issues that remain to be resolved Owing especially to 1 the appearance of supernova 1987A in the nearby Large Magellanic Cloud 2 the spectacularly successful use of supernovae as distance indicators for cosmology 3 the association of some supernovae with the enigmatic cosmic gamma ray bursts and 4 the discovery of a class of superluminous supernovae the pace of supernova research has been increasing sharply This monograph serves as a broad survey of modern supernova research and a guide to the current literature The book s emphasis is on the explosive phases of supernovae Part 1 is devoted to a survey of the kinds of observations that inform us about supernovae some basic interpretations of such data and an overview of the evolution of stars that brings them to an explosive endpoint Part 2 goes into more detail on core collapse and superluminous events which kinds of stars produce them and how do they do it Part 3 is concerned with the stellar progenitors and explosion mechanisms of thermonuclear Type Ia supernovae Part 4 is about consequences of supernovae and some applications to astrophysics and cosmology References are provided in sufficient number to help the reader enter the literature

Nuclear Science Abstracts ,1973 **Supernova Explosions** David Branch, J. Craig Wheeler, 2017-08-02 Targeting advanced students of astronomy and physics as well as astronomers and physicists contemplating research on supernovae or related fields David Branch and J Craig Wheeler offer a modern account of the nature causes and consequences of supernovae as well as of issues that remain to be resolved Owing especially to 1 the appearance of supernova 1987A in the nearby Large Magellanic Cloud 2 the spectacularly successful use of supernovae as distance indicators for cosmology 3 the association of some supernovae with the enigmatic cosmic gamma

ray bursts and 4 the discovery of a class of superluminous supernovae the pace of supernova research has been increasing sharply This monograph serves as a broad survey of modern supernova research and a guide to the current literature The book s emphasis is on the explosive phases of supernovae Part 1 is devoted to a survey of the kinds of observations that inform us about supernovae some basic interpretations of such data and an overview of the evolution of stars that brings them to an explosive endpoint Part 2 goes into more detail on core collapse and superluminous events which kinds of stars produce them and how do they do it Part 3 is concerned with the stellar progenitors and explosion mechanisms of thermonuclear Type Ia supernovae Part 4 is about consequences of supernovae and some applications to astrophysics and cosmology References are provided in sufficient number to help the reader enter the literature

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Data Analysis In Astronomy: Proceedings Of The Fifth Workshop Michael J B Duff,Andre Heck,Livio Scarsi,Vito Di Gesu,Maria Concetta Maccarone,H U Zimmermann,1998-01-02 This proceedings volume focuses on new methods of image and signal analysis in a wide range of energies from radio to gamma ray astronomy and advanced methodologies regarding problems and solutions in information fusion and retrieval statistical pattern recognition vision and advances in computing technology A special section is devoted to the BeppoSAX mission Satellite per Astronomia X launched on April 30 1996 inside a program of the Italian Space Agency ASI and the Netherlands Agency for Aerospace Programs

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