



David S. Stevenson

Extreme Explosions

Supernovae, Hypernovae,
Magnetars, and Other Unusual
Cosmic Blasts

 Springer

Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe

Bob Berman



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Extreme Explosions David S. Stevenson, 2013-09-05 What happens at the end of the life of massive stars At one time we thought all these stars followed similar evolutionary paths However new discoveries have shown that things are not quite that simple This book focuses on the extreme the most intense brilliant and peculiar of astronomical explosions It features highly significant observational finds that push the frontiers of astronomy and astrophysics particularly as before these objects were only predicted in theory This book is for those who want the latest information and ideas about the most dramatic and unusual explosions detected by current supernova searches It examines and explains cataclysmic and unusual events in stellar astrophysics and presents them in a non mathematical but highly detailed way that non professionals can understand and enjoy

The Quizzer's Guide to the Cosmos Stephen Webb, 2024-04-18 Have you ever gazed up at the night sky and wondered how many stars you can see Whether the universe is infinite Or more prosaically what the chances are of you being hit by a rock from space The Quizzer's Guide to the Cosmos is here to satisfy your curiosity by offering an overview of the history of astronomy from the earliest beginnings through to the most recent discoveries This isn't a typical astronomy book however it's packed with a 500 question multiple choice quiz that not only makes the book more interactive but also helps you retain information and lets you test your knowledge of some of the most captivating concepts in science The book will appeal to astronomy buffs and to general quiz aficionados alike Digital questions and answers also via app Download the Springer Nature Flashcards app free of charge and test your knowledge

A Journey through the Universe Ian Morison, 2014-09-25 Providing an in depth understanding both for general readers and astronomy enthusiasts this highly comprehensive book provides an up to date survey of our knowledge of the Universe beyond Earth The book explores our Solar System its planets and other bodies examines the Sun and how it and other stars evolve through their lifetimes discusses the search for planets beyond our Solar System and how we might detect life on them and highlights interesting objects found within our galaxy the Milky Way It also looks at our current understanding of the origin and evolution of the Universe as well as many other intriguing topics such as time black holes and Einstein's theories dark matter dark energy and the Cosmic Microwave Background The book is uniquely supported by video lectures given by the author available online It also includes the very latest astronomical observations such as those made by the Planck and Kepler spacecraft

Introdução à astrofísica Anderson de Oliveira Ribeiro, 2024-03-01 A obra apresenta um panorama hist rico da evolu o da astronomia desde as antigas civiliza es at os avan os contempor neos da astrof sica Tamb m trata dos principais conceitos teorias e m todos observacionais utilizados na explora o do universo Com enfoque na astrof sica do Sistema Solar das estrelas e das gal xias o texto ainda se aprofunda na an lise das propriedades e das caracter sticas desses corpos celestes

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

Supernova Or
Graur,2022-02-08 A concise illustrated introduction to the history and physics of supernovae the brilliant explosions of stars with striking color illustrations Supernovae are the explosions of stars They are some of the most energetic phenomena in the Universe rivaling the combined light of billions of stars Supernovae have been studied for centuries and they have also made appearances in popular culture a glimpse of a supernova in a painting provides Sherlock Holmes with a crucial clue for example In this volume in the MIT Press Essential Knowledge series astrophysicist Or Graur offers a concise and accessible introduction to these awe inspiring astronomical phenomena Graur explains that a deep observational understanding of supernovae why and how they shine and how their brightness changes over time allows us to use them as tools for experiments in astrophysics and physics A certain type of supernova for example brightens and fades in such a predictable manner that we can measure the distances to their host galaxies We owe our existence to supernovae they give us iron for our blood and calcium for our bones But supernovae may also have caused a mass extinction event on Earth 2 6 million years ago Graur shows how observations of supernovae played a role in the transformation of astronomy from astrology to astrophysics surveys the tools used to study supernovae today and describes the lives and deaths of stars and the supernova remnants neutron stars and black holes they leave behind Illustrations in both color and black and white many from Graur s own Hubble Space Telescope data make this account of supernovae particularly vivid

Supernovae Paul Murdin,Lesley Murdin,1985-11-07 This revised 1985 edition tells the story of supernovae capturing the flavour of ancient astronomy

Boom! Bob Berman,2019-03-07 Looking at the night sky you d be forgiven for thinking it s all quiet up there in space But you d be wrong Extreme events are forever unfolding galaxies explode cosmic debris hurtles through the heavens and our own Milky Way is on a collision course with the giant Andromeda galaxy Mayhem moulded the cosmos shaped life on Earth and at times threatened to end it With an enduring sense of wonder through cataclysms great and small Bob Berman

presents a destructive history of our universe **The Supernova Story** Laurence A. Marschall, 2013-11-11 Astronomers believe that a supernova is a massive explosion signaling the death of a star causing a cosmic recycling of the chemical elements and leaving behind a pulsar black hole or nothing at all In an engaging story of the life cycles of stars Laurence Marschall tells how early astronomers identified supernovae and how later scientists came to their current understanding piecing together observations and historical accounts to form a theory which was tested by intensive study of SN 1987A the brightest supernova since 1006 He has revised and updated The Supernova Story to include all the latest developments concerning SN 1987A which astronomers still watch for possible aftershocks as well as SN 1993J the spectacular new event in the cosmic laboratory **Supernovae** Martin Mobberley, 2007-07-05 Supernova explosions which mark the deaths of massive stars or of white dwarf stars in binary systems are unbelievably violent events Despite occurring in galaxies many millions of light years away amateur telescopes can reveal these colossal explosions and even discover them In the past 25 years the amateur astronomer's contribution to supernova research has been staggering Visual variable star observers with access to large aperture amateur telescopes have contributed a steady stream of magnitude estimates of the brightest and closest supernovae In addition with the increasing availability of robotic telescopes and CCD technology more and more amateurs are discovering supernovae from their backyards Worldwide there have been more than 400 supernovae discovered by amateur astronomers using amateur telescopes Supernova research has never been so important Recent professional measurements of the most distant Type Ia supernovae have revealed the staggering and unexpected discovery that the acceleration of the Universe is actually increasing This in turn has led to a new phrase dark energy entering the astronomical vocabulary a mysterious force in opposition to gravity driving the accelerated expansion Although amateurs cannot study the farthest supernovae their discovery and measurement of the closer examples helps to refine the science that is the hottest topic in cosmology today that is pinning down the history of the Universe and how much mass and energy exists within it today As always amateur astronomers are making a valuable contribution and hopefully this book might inspire a few more to monitor and discover new supernovae Martin Mobberley Suffolk U K **Supernovae** Stanford E.

Woosley, 2012-12-06 Supernova explosions are not only important to the ecology of the universe seeding it among other things with the heavy elements necessary for the existence of life but they are also a natural laboratory in which a host of unique physical phenomena occur While still far from a complete understanding scientists have made great advances during the last twenty five years in understanding the nature and consequences of supernovae This book presents the state of supernova studies at the beginning of the 1990's as reported at a two week meeting on the Santa Cruz campus of the University of California in July 1989 involving 177 astronomers and astrophysicists from 17 nations The 110 papers contained in this volume report all aspects of the field observations at all wavelengths from radio through gamma rays bolometric light curves and spectra neutrino observations the theory of stellar explosions multidimensional models for mixing

nucleosynthesis calculations synthetic spectral modeling presupernova evolution supernova remnants supernova rates supernovae as standard candles the interaction of supernovae with their surroundings and constitute the most comprehensive and up to date treatment of SN 1987A currently available Astronomers and astronomy graduate students will find this an invaluable summary of the current state of supernova research The informed layperson or undergraduate astronomy student will also find it a useful introduction and guide to the literature in the subject *Supernovae and Gamma-Ray Bursters* Kurt Weiler, 2008-01-11 Since the dawn of mankind observers of the sky have wondered at the sudden appearance of new stars on the seemingly unchanging heavens and for at least 2000 years have recorded these phenomena in their annals and archives Even in more modern times since the discovery of SN1885A in S Andromeda which shined in the important island universe discussions of the 1920 s the puzzle of supernovae SNe has played an important role in astrophysics Only with the seminal work of Fritz Zwicky and Walter Baade in the 1930 s did we begin to understand the differences between novae and SNe and the importance of SNe as the fonts of energy for the interstellar medium and as drivers of chemical evolution in galaxies As recently as the 1940 s and 1950 s the early days of radio astronomy were heavily influenced by the familiar names of Cassiopeia A and Taurus A two young supernova remnants and two Nobel prizes have been awarded for discovery and study of a related phenomenon pulsars In spite of the great age of the study of SNe since at least the Chinese records of SN185 and probably earlier the field is in fact very young having only attracted a large devoted following since the spectacular Type II SN1987A in the Large Magellanic Cloud the first naked eye SN in more than 400 years

Supernovae Stanford E Woosley, 1990-12-19 *Supernovae and Gamma-Ray Bursts* Mario Livio, Nino Panagia, Kailash Sahu, 2001-07-02 Since the dramatic discovery that the supernova SN1998bw coincided in position and time with a gamma ray burst the possibility was raised that these two types of spectacular explosions are related This timely volume presents especially written articles by a host of world experts who gathered together for an international conference at the Space Telescope Science Institute This was the first meeting in which the communities of supernova researchers and gamma ray burst researchers were brought together to share ideas The contributions review the mechanisms for these explosive events the possible connections between them and their relevance for cosmology Both observations and theoretical developments are covered This book is an invaluable source of information for both active researchers and graduate students in this exciting area of research *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.

Cosmic Explosions J.M. Marcaide, Kurt Weiler, 2005-11-21. Supernovae are among the most energetic phenomena in the Universe and related to almost all aspects of modern astrophysics including starburst galaxies, cosmic ray acceleration, neutron star and black hole formation, nucleosynthesis and ISM chemical enrichment, energy input to the ISM, cosmic distance scale determination, dark energy, related cosmological acceleration, gamma ray bursts, extra-solar system neutrino burst detection, gravity wave generation and many more. Additionally, the past 15 years have been particularly productive with many new results and new understanding, due in particular to the closest SN in 400 years in SN 1987A in the Large Magellanic Cloud and the unusually bright and close SN 1993J and SN 1994I in the nearby galaxies M81 and M51 respectively. In addition, the discovery of the gamma ray burst GRB 980425 and its related supernova SN 1998bw and the connection of GRB 030329, SN 2003dh, tied the study of SNe and GRBs inextricably together. With the many developments since the last major supernova meeting in La Serena, Chile, in 1997, we felt that it was an appropriate time to bring together experts and students interested in the subject for a meeting where SN and GRB properties and interrelationships could be discussed. The tenth anniversary of SN 1993J provided such an opportunity and appropriately the meeting was held in Spain where SN 1993J was discovered on the early morning of 28 March 1993 by a Spanish amateur astronomer, Francisco Garcia.

Cosmic Explosions in Three Dimensions Peter Höflich, Pawan Kumar, J. Craig Wheeler, 2011-08-18. Recent observations have demonstrated that supernovae and gamma ray bursts are driven by strong jets of energy and other asymmetrical effects that reveal unknown physical properties. This volume highlights the burgeoning era of routine supernova polarimetry and the new insights into core collapse and thermonuclear explosions. Chapters by leading scientists summarize the status of a rapidly developing perspective on stellar explosions in a valuable resource for graduate students and research scientists.

Supernovae and Nucleosynthesis David Arnett, 1996-03-24. This book investigates the question of how matter has evolved since its origin in the Big Bang from the cosmological synthesis of hydrogen and helium to the generation of the complex set of nuclei that comprise our world and ourselves. A central theme is the evolution of gravitationally contained thermonuclear reactors, otherwise known as stars. Our current understanding is presented systematically and quantitatively by combining simple analytic models with new state-of-the-art computer simulations. The narrative begins with the clues, primarily the solar system abundance pattern, the constraining physics, primarily nuclear and particle physics, and the thermonuclear burning in the Big Bang itself. It continues with a step-by-step description of how stars evolve by nuclear reactions, a critical investigation of supernova explosion mechanisms, and the

formation of neutron stars and of black holes and an analysis of how such explosions appear to astronomers illustrated by comparison with recent observations It concludes with a synthesis of these ideas for galactic evolution with implications for nucleosynthesis in the first generation of stars and for the solar system abundance pattern Emphasis is given to questions that remain open and to active research areas that bridge the disciplines of astronomy cosmochemistry physics and planetary and space science Extensive references are given

Supernovas Ruth Owen, 2012-08-15 A supernova recorded by astronomers in the year 1054 could be seen in the sky for around two years after The birth life and brilliant demise of stars will be uncovered in this fascinating volume Clear text and beautiful photographs from the Hubble Space Telescope explore many interesting topics such as whether or not we may witness a supernova in our own lifetimes

Superstars David H. Clark, 1984

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