



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

**Ian Morison**



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

*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

**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

[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

[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 **Supernovae** Paul

Murdin,Lesley Murdin,1985-11-07 This revised 1985 edition tells the story of supernovae capturing the flavour of ancient astronomy The Supernova Story Laurence A. Marschall,2021-02-09 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

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 Superstars David H. Clark,1984 **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. 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 confirmation 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.

**Supernovae** Martin Mobberley, 2007-02-05 This book is intended for amateur astronomers who are readers of Sky Telescope magazine or similar astronomy periodicals or are at least at the same level of knowledge and enthusiasm. Supernovae represent the most violent stellar explosions in the universe. This is a unique guide to supernova facts, and it is also an observing/discovery guide, all in one package. Supernovae are often discovered by amateur astronomers, and the book describes the best strategies for discovering and observing them. Moreover, it contains detailed information about the probable physics of supernovae, a subject which even today is imperfectly understood. **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 in volving 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 in valuable 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** Stanford E Woosley,1990-12-19 **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 *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

**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     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 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 gured 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 eld is in fact very young having only attracted a large devoted following since the spectacular Type II SN1987A in the Large Magellanic Cloud the rst naked eye SN in more than 400 years

**Handbook of Supernovae** Athem W. Alsabti, Paul Murdin, 2017-12-08 This reference work gathers all of the latest research in the supernova field areas to create a definitive source book on supernovae their remnants and related topics It includes each distinct subdiscipline including stellar types progenitors stellar evolution nucleosynthesis of elements supernova types neutron stars and pulsars black holes swept up interstellar matter cosmic rays neutrinos from supernovae supernova observations in different wavelengths interstellar molecules and dust While there is a great deal of primary and specialist literature on supernovae with a great many scientific groups around the world focusing on the phenomenon and related subdisciplines nothing else presents an overall survey This handbook closes that gap at last As a comprehensive and balanced collection that presents the current state of knowledge in the broad field of supernovae this is to be used as a basis for further work and study by graduate students astronomers and astrophysicists working in close related disciplines and established groups Editorial Board EDITORS IN CHIEF Athem W Alsabti University College London Observatory University College London London UK Sections Supernovae and Supernova Remnants Supernovae and the Environment of the Solar System Paul Murdin Institute of Astronomy University of Cambridge Cambridge UK Section Supernovae and Supernova Remnants SECTION EDITORS David Arnett Steward Observatory University of Arizona Tucson AZ USA Section

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## **Table of Contents Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe**

1. Understanding the eBook Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - The Rise of Digital Reading Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - Advantages of eBooks Over Traditional Books
2. Identifying Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - User-Friendly Interface
4. Exploring eBook Recommendations from Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - Personalized Recommendations
  - Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe User Reviews and Ratings
  - Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe and Bestseller Lists
5. Accessing Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers

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- Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe Budget-Friendly Options

### 6. Navigating Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe eBook Formats

- ePub, PDF, MOBI, and More
- Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe Compatibility with Devices
- Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe Enhanced eBook Features

### 7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
- Highlighting and Note-Taking Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
- Interactive Elements Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe

### 8. Staying Engaged with Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe

### 9. Balancing eBooks and Physical Books Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe

- Benefits of a Digital Library

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

---

- Creating a Diverse Reading Collection Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - Setting Reading Goals Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - Fact-Checking eBook Content of Extreme Explosions Supernovae Hypernovae Magnetars And Other Unusual Cosmic Blasts Astronomers Universe
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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