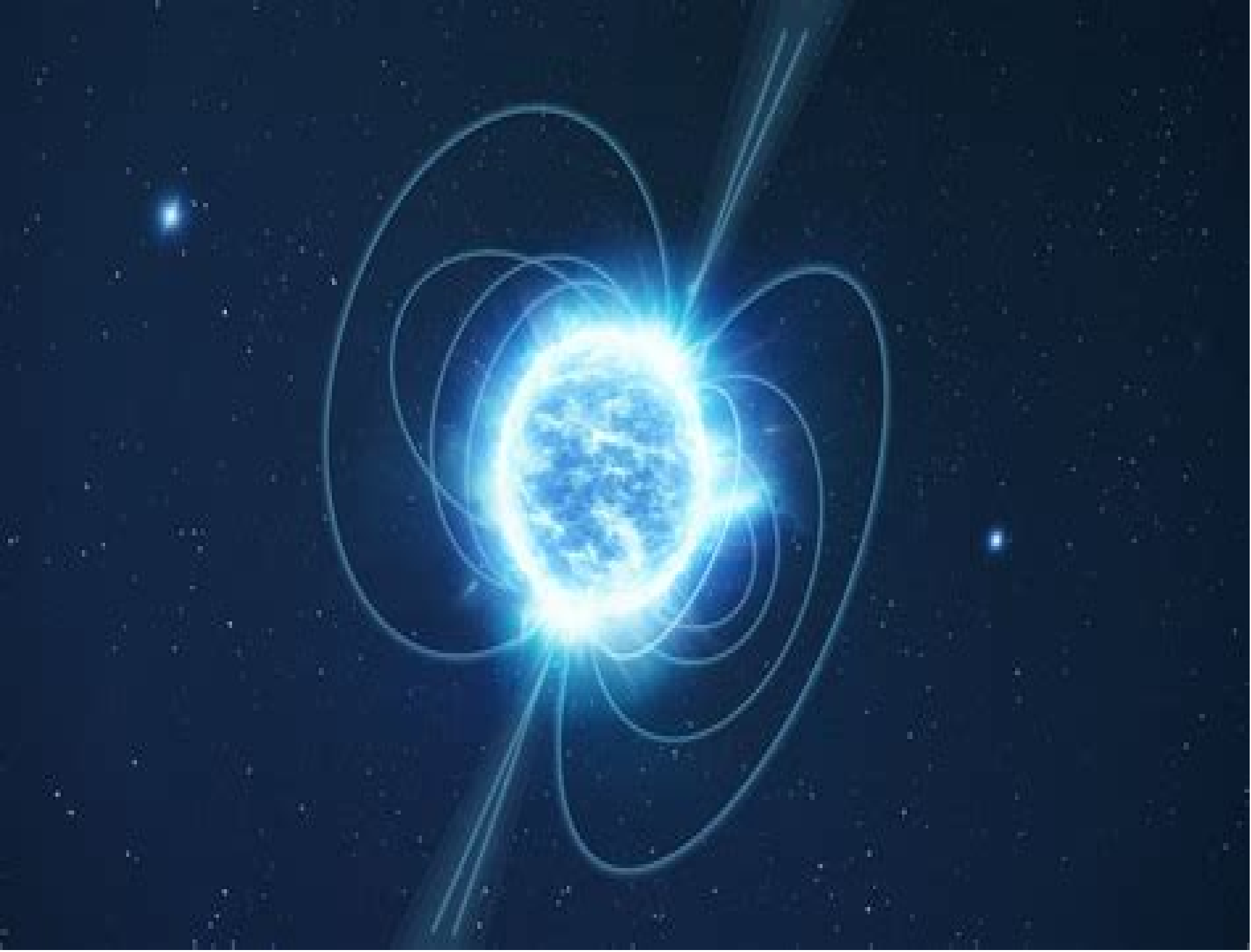




Neutron Stars

**Luciano Rezzolla, Pierre
Pizzochero, David Ian Jones, Nanda
Rea, Isaac Vidaña**



Neutron Stars:

Neutron Stars and Pulsars Werner Becker, 2009-02-11 Neutron stars are the most compact astronomical objects in the universe which are accessible by direct observation Studying neutron stars means studying physics in regimes unattainable in any terrestrial laboratory Understanding their observed complex phenomena requires a wide range of scientific disciplines including the nuclear and condensed matter physics of very dense matter in neutron star interiors plasma physics and quantum electrodynamics of magnetospheres and the relativistic magneto hydrodynamics of electron positron pulsar winds interacting with some ambient medium Not to mention the test bed neutron stars provide for general relativity theories and their importance as potential sources of gravitational waves It is this variety of disciplines which among others makes neutron star research so fascinating not only for those who have been working in the field for many years but also for students and young scientists The aim of this book is to serve as a reference work which not only reviews the progress made since the early days of pulsar astronomy but especially focuses on questions such as What have we learned about the subject and how did we learn it What are the most important open questions in this area and What new tools telescopes observations and calculations are needed to answer these questions All authors who have contributed to this book have devoted a significant part of their scientific careers to exploring the nature of neutron stars and understanding pulsars Everyone has paid special attention to writing educational comprehensive review articles with the needs of beginners students and young scientists as potential readers in mind This book will be a valuable source of information for these groups *The Physics and Astrophysics of Neutron Stars* Luciano Rezzolla, Pierre Pizzochero, David Ian Jones, Nanda Rea, Isaac Vidana, 2019-01-09 This book summarizes the recent progress in the physics and astrophysics of neutron stars and most importantly it identifies and develops effective strategies to explore both theoretically and observationally the many remaining open questions in the field Because of its significance in the solution of many fundamental questions in nuclear physics astrophysics and gravitational physics the study of neutron stars has seen enormous progress over the last years and has been very successful in improving our understanding in these fascinating compact objects The book addresses a wide spectrum of readers from students to senior researchers Thirteen chapters written by internationally renowned experts offer a thorough overview of the various facets of this interdisciplinary science from neutron star formation in supernovae pulsars equations of state super dense matter gravitational wave emission to alternative theories of gravity The book was initiated by the European Cooperation in Science and Technology COST Action MP1304 Exploring fundamental physics with compact stars NewCompStar Neutron Stars Katia Moskvitch, 2020-09-15 Neutron stars the ultra dense remnants of exploded stellar giants are among the most fascinating objects in the cosmos Katia Moskvitch introduces readers to their astonishing qualities and follows the scientists who are discovering what neutron stars can tell us about the mysteries of dark matter black holes and general relativity **Theory of Neutron Star Magnetospheres** F. Curtis Michel, 1991 An incomparable reference for

astrophysicists studying pulsars and other kinds of neutron stars Theory of Neutron Star Magnetospheres sums up two decades of astrophysical research It provides in one volume the most important findings to date on this topic essential to astrophysicists faced with a huge and widely scattered literature F Curtis Michel who was among the first theorists to propose a neutron star model for radio pulsars analyzes competing models of pulsars radio emission models winds and jets from pulsars pulsating X ray sources gamma ray burst sources and other neutron star driven phenomena Although the book places primary emphasis on theoretical essentials it also provides a considerable introduction to the observational data and its organization Michel emphasizes the problems and uncertainties that have arisen in the research as well as the considerable progress that has been made to date

Neutron Stars: Theory and Observation J.E Ventura, David

Pines, 2012-12-06 Some twenty three years after the discovery of pulsars and their identification as rotating neutron stars neutron star physics may be regarded as coming of age Pulsars and accreting neutron stars have now been studied at every wavelength from the initial radio observations through optical X and ray up to the very recent observations in the TeV region while theorists have studied in some detail relevant physical processes both outside and inside neutron stars As a result comparison of theory with observation provides a test of our theoretical ideas in fields as diverse as neutron and nuclear matter superfluidity and superconductivity the acceleration of high energy particles and the generation and maintenance of intense magnetic fields For example through observations of glitches and post glitch behavior of pulsars it has become possible to establish the presence of superfluid neutron matter in the inner crust of neutron stars and to determine some of its properties while neutron stars in compact binary systems offer one of the most efficient energy generation mechanisms known It is in fact the interactive interpretation of these diverse pieces of information that can lead to major advances in our understanding of the physics of these exotic objects and justifies the characterization of neutron stars as hadron physics laboratories

Neutron Stars 1 P. Haensel, A.Y. Potekhin, D.G. Yakovlev, 2007-12-06

Neutron stars play a unique role in physics and astrophysics On the one hand they contain matter under extreme physical conditions and their theories are based on risky and far extrapolations of what we consider reliable physical theories of the structure of matter tested in laboratory On the other hand their observations offer the unique opportunity to test these theories Moreover neutron stars are important dramatic personae on the stage of modern astrophysics they participate in many astronomical phenomena 3 Neutron stars contain the matter of density ranging from a few g cm^{-3} at their surface where the pressure is small to more than $10^{15} \text{ g cm}^{-3}$ at the center where the pressure exceeds $10^{35} \text{ dyn cm}^{-2}$ To calculate neutron star structure one needs the dependence of the pressure on density the so called equation of state EOS in this huge density range taking due account of temperature more than 10^9 K in young neutron stars and magnetic fields sometimes above 10^{15} G The present book is mainly devoted to the theory of the EOS of neutron star matter and its consequences for neutron star structure As one moves from the neutron star surface to the center the methods to calculate the EOS change Atomic structure and plasma theories are

used for the surface stellar layers Deeper layers of the neutron star crust require nuclear theory combined with plasma physics both in very exotic density temperature regimes Finally the neutron star core necessitates many body theory of dense strongly interacting systems together with the physics of strong interactions of elementary particles

The Electromagnetic Spectrum of Neutron Stars Altan Baykal, Sinan K. Yerli, Sitki C. Inam, Sergei Grebenev, 2006-01-20 Neutron stars hold a central place in astrophysics not only because they are made up of the most extreme states of the condensed matter but also because they are along with white dwarfs and black holes one of the stable configurations that stars reach at the end of stellar evolution Neutron stars possess the highest rotation rates and strongest magnetic fields among all stars They radiate prolifically in high energy electromagnetic radiation and in the radio band This book is devoted to the selected lectures presented in the 6th NATO ASI series entitled The Electromagnetic Spectrum of Neutron Stars in Marmaris Turkey on 7-18 June 2004 This ASI is devoted to the spectral properties of neutron stars Spectral observations of neutron stars help us to understand the magnetospheric emission processes of isolated radio pulsars and the emission processes of accreting neutron stars This volume includes spectral information from the neutron stars in broadest sense namely neutrino and gravitational radiation along with the electromagnetic spectrum We believe that this volume can serve as graduate level of text including the broad range of properties of neutron stars

The Diversity of Neutron Stars David L. Kaplan, 2004 Neutron stars are invaluable tools for exploring stellar death the physics of ultra dense matter and the effects of extremely strong magnetic fields The observed population of neutron stars is dominated by the 1000 radio pulsars but there are distinct sub populations that while fewer in number can have significant impact on our understanding of the issues mentioned above These populations are the nearby isolated neutron stars discovered by ROSAT and the central compact objects in supernova remnants The studies of both of these populations have been greatly accelerated in recent years through observations with the Chandra X ray Observatory and the XMM Newton telescope First we discuss radio optical and X ray observations of the nearby neutron stars aimed at determining their relation to the Galactic neutron star population and at unraveling their complex physical processes by determining the basic astronomical parameters that define the population distances ages and magnetic fields the uncertainties in which limit any attempt to derive basic physical parameters for these objects We conclude that these sources are 10^6 year old cooling neutron stars with magnetic fields above 10^{13} Gauss Second we describe the hollow supernova remnant problem why many of the supernova remnants in the Galaxy have no indication of central neutron stars We have undertaken an X ray census of neutron stars in a volume limited sample of Galactic supernova remnants and from it conclude that either many supernovae do not produce neutron stars contrary to expectation or that neutron stars can have a wide range in cooling behavior that makes many sources disappear from the X ray sky

Supernovae, Neutrinos, and Neutron Stars Hong-ye Chiu, 1964 **Timing Neutron Stars** H. Ögelman, E.P. van den Heuvel, 2012-12-06 The idea for organizing an Advanced Study Institute devoted largely to neutron star timing arose

independently in three places at Istanbul Garching and Amsterdam when we became aware of each other's ideas we decided to join forces. The choice of a place for the Institute in Turkey appealed much to us all and it was then quickly decided that Qem would be an excellent spot. When the preparations for the Institute started early in 1987 we could not have guessed how timely the subject actually was. Of course the recently discovered QPO phenomena in accreting neutron stars and half a dozen binary and millisecond radio pulsars known at the time formed one of the basic motivations for organizing this Institute. But none of us could have guessed that later in 1987 we were to witness the wonderful discovery of the binary and millisecond radio pulsars in globular clusters and as if Nature wished to give us a special present for this the discovery in March 1988 of a millisecond pulsar in an eclipsing binary system the first eclipsing radio pulsar ever found and the second fastest in the sky. The discussion of this pulsar its formation and fate was one of the highlights of this meeting especially since its discoverers were among the participants of the Institute and could provide us with first hand information.

Neutron Stars and Their Birth Events Wolfgang Kundt, 2012-12-06 This volume is the documentation of the second Course on Neutron Stars Active Galactic Nuclei and Jets held at Erice in September 1988. This second Course was devoted to our knowledge about neutron star sources. The poster spoke of pulsars accreting X-ray sources and jet engines perhaps also UHE pulsars X-ray bursters and black hole candidates. Neutron stars have even been proposed as the primary cosmic ray boosters. Most of their properties are still controversial such as their birth mechanism neutrino versus magnetic piston internal structure neutrons quarks strange particles magnetic thermal and spin histories wind generation hydrogen versus pair plasma radiation versus centrifugal pressure magnetospheric structure and accretion modes along field lines versus quasi-Keplerian. The listed controversies have largely survived through the Course and entered into the proceedings. Several lecturers speak of magnetic field decay in neutron stars of the recycling of old pulsars and of accretion induced collapse of white dwarfs as though such processes were textbook knowledge. Terms and abbreviations like RPSR recycled pulsar spinup line AIC and ADC accretion disk corona help to foster the assumptions. It is not clear to me at this time whether any of these notions has an application to reality.

Neutron Stars: Theory and Observation J.E. Ventura, David Pines, 1991-09-30 Some twenty three years after the discovery of pulsars and their identification as rotating neutron stars neutron star physics may be regarded as coming of age. Pulsars and accreting neutron stars have now been studied at every wavelength from the initial radio observations through optical X-ray and up to the very recent observations in the TeV region while theorists have studied in some detail relevant physical processes both outside and inside neutron stars. As a result comparison of theory with observation provides a test of our theoretical ideas in fields as diverse as neutron and nuclear matter superfluidity and superconductivity the acceleration of high energy particles and the generation and maintenance of intense magnetic fields. For example through observations of glitches and post glitch behavior of pulsars it has become possible to establish the presence of superfluid neutron matter in the inner crust of neutron stars and to determine some of its properties while

neutron stars in compact binary systems offer one of the most efficient energy generation mechanisms known. It is in fact the interactive interpretation of these diverse pieces of information that can lead to major advances in our understanding of the physics of these exotic objects and justifies the characterization of neutron stars as hadron physics laboratories. Neutron Stars, Black Holes and Binary X-Ray Sources H. Gursky, Remo Ruffini, 2013-04-17 This book contains a set of articles based on a session of the annual meeting of the American Association for the Advancement of Science held in San Francisco in February 1974. The reason for the meeting arose from the need to communicate to the largest possible scientific community the dramatic advances which have been made in recent years in the understanding of collapsed objects: neutron stars and black holes. Thanks to an unprecedented resonance between X-ray, γ -ray, radio and optical astronomy and important new theoretical developments in relativistic astrophysics, a new deep understanding has been acquired of the physical processes occurring in the late stages of evolution of stars. This knowledge may be one of the greatest conquests of man's understanding of nature in this century. This book aims to give an essential and up-to-date view in this field. The analysis of the physics and astrophysics of neutron stars and black holes is here attacked from both theoretical and experimental points of view. In the experimental field we range from the reviews and catalogues of galactic X-ray sources (R. Gursky and E. Schreier) and pulsars (E. Groth) to the observations of the optical counter part of X-ray sources (P. Boynton) to finally the recently discovered gamma-ray bursts (I. Strong) and pulse astronomy (R. B. Partridge). *Isolated Neutron Stars: From the Surface to the Interior* Silvia Zane, Roberto Turolla, Dany Page, 2007-05-22 This book is a collation of the contributions presented at a major conference on isolated neutron stars held in London in April 2006. Forty years after the discovery of radio pulsars it presents an up-to-date description of the new vision of isolated neutron stars that has emerged in recent years. The great variety of isolated neutron stars from pulsars to magnetars is well covered by descriptions of recent observational results and presentations of the latest theoretical interpretation of these data. **The Cooling of Neutron Stars** Ronny Kjelsberg, 2012-06-21 Neutron stars are the densest objects known in our universe that have not collapsed in on themselves to form a singularity, a black hole. Like black holes they are formed when stars run out of nuclear fuel and radiation pressure can no longer withstand the pull of gravitational forces. This book gives you an in-depth look at how the Direct Urca process is a central element in the cooling of neutron stars after their forming; however, it also provides brief introductions to neutron star physics in general, the history of neutron star physics and pulsars, the pulsating stars that form the observational basis for neutron stars. The book also introduces the different relevant models for an equation of state for neutron stars and a chapter on hyperon matter before it finally goes on to describe the cooling processes of neutron stars, all with the necessary mathematical framework for an in-depth analysis. **Timing Neutron Stars: Pulsations, Oscillations and Explosions** Tomaso M. Belloni, Mariano Méndez, Chengmin Zhang, 2020-10-23 Neutron stars, whether isolated or in a binary system, display a varied and complex phenomenology, often accompanied by extreme variability of many time scales which takes the

form of pulsations due to the object rotation quasi periodicities associated to accretion of matter and explosions due to matter accreted on the surface or to starquakes of highly magnetized objects This book gives an overview of the current observational and theoretical standpoint in the research on the physics under the extreme conditions that neutron stars naturally provide The six chapters explore three physical regions of a neutron star the space around it where accretion and pulsar companions allow testing of general relativity its surface where millisecond pulsation and X ray burts provide clues about general relativistic effects and the equation of state of neutron matter its interior of course inaccessible to direct observations can nevertheless be probed with all observational parameters related to neutron star variability

The Neutron Star Chryssa Kouveliotou, J.E Ventura, Edward Peter Jacobus van den Heuvel, 2001-12-31 Proceedings of the NATO Advanced Study Institute Elounda Crete Greece 7 18 June 1999

Black Holes, White Dwarfs and Neutron Stars Stuart L. Shapiro, Saul A. Teukolsky, 2024-11-12 This self contained textbook brings together many different branches of physics e g nuclear physics solid state physics particle physics hydrodynamics relativity to analyze compact objects The latest astronomical data is assessed Over 250 exercises

Black Holes, White Dwarfs, and Neutron Stars Stuart L. Shapiro, Saul A. Teukolsky, 2008-11-20 This self contained textbook brings together many different branches of physics e g nuclear physics solid state physics particle physics hydrodynamics relativity to analyze compact objects The latest astronomical data is assessed Over 250 exercises

Supernovae, Neutron Star Physics and Nucleosynthesis Debades Bandyopadhyay, Kamales Kar, 2022-03-28 This book deals with the interdisciplinary areas of nuclear physics supernovae and neutron star physics It addresses the physics and astrophysics of the spectacular supernova explosions starting with the collapse of massive stars and ending with the birth of neutron stars or black holes Recent progress in the understanding of core collapse supernova CCSN and observational aspects of future detections of neutrinos from CCSN explosions are discussed The other main focus in this text is the novel phases of dense nuclear matter its compositions and equation of state EoS from low to very high baryon density relevant to supernovae and neutron stars The multi messenger astrophysics of binary neutron star merger GW170817 and its relation to EoS through tidal deformability are also presented in detail The synthesis of elements heavier than iron in the supernova and neutron star environment by the rapid r process are treated here with special emphasis on the nucleosynthesis in the ejected material from GW170817 This monograph is written for graduate students and researchers in the field of nuclear astrophysics

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