

# **Pulsar Astronomy**

Keith Arnaud, Randall Smith, Aneta Siemiginowska

#### **Pulsar Astronomy:**

Handbook of Pulsar Astronomy D. R. Lorimer, M. Kramer, 2005 This 2004 book provides a concise description of pulsar research presenting key techniques background information and results Pulsar Astronomy Andrew G. Lyne, Francis Graham-Smith, 2006-01-30 A thoroughly revised third edition covering recent advances in the field and including an updated Pulsar Astronomy Andrew Lyne, Francis Graham-Smith, Benjamin Stappers, 2022-08-04 catalogue of all known pulsars After more than half a century since their unexpected discovery and identification as neutron stars the observation and understanding of pulsars touches upon many areas of astronomy and astrophysics. The literature on pulsars is vast and the observational techniques used now cover the whole of the electromagnetic spectrum from radio to gamma rays Now in its fifth edition this volume has been reorganised and features new material throughout It provides an introduction in historical and physical terms to the many aspects of neutron stars including condensed matter physics of the magnetosphere supernovae and the development of the pulsar population propagation in the interstellar medium binary stars gravitation and general relativity The current development of a new generation of powerful radio telescopes designed with pulsar research in mind makes this survey and guide essential reading for a growing body of students and astronomers Geoff McNamara, 2009-04-24 Pulsars are rapidly spinning neutron stars the collapsed cores of once massive stars that ended their lives as supernova explosions In this book Geoff McNamara explores the history subsequent discovery and contemporary research into pulsar astronomy The story of pulsars is brought right up to date with the announcement in 2006 of a new breed of pulsar Rotating Radio Transients RRATs which emit short bursts of radio signals separated by long pauses These may outnumber conventional radio pulsars by a ratio of four to one Geoff McNamara ends by pointing out that despite the enormous success of pulsar research in the second half of the twentieth century the real discoveries are yet to be made including perhaps the detection of the hypothetical pulsar black hole binary system by the proposed Square Kilometre Array the largest single radio telescope in the world The Data Book of Astronomy Patrick Moore, 2000-01-01 Filled with data about the Earth Moon the planets the stars our Galaxy and the myriad galaxies in deep space this invaluable resource reveals the latest scientific discoveries about black holes quasars and the origins of the Universe It includes maps supported by detailed tables of the names positions magnitudes and spectra of the main stars in each constellation along with key data on galaxies nebulae and clusters MNASSA wrote This book fills a niche with detailed astronomical data and concise explanations all at an accessible level it is an excellent resource and probably will be the first book I shall reach for Encyclopedia of Astronomy & Astrophysics P Murdin, 2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia's authority

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Advances in Astronomy J. M. T. Thompson,2005 In this highly accessible book leading scientists from around the world give a general overview of research advances in their subject areas within the field of Astronomy They describe some of their own cutting edge research and give their visions of the future Re written in a popular and well illustrated style the articles are mainly derived from scholarly and authoritative papers published in special issues of the Royal SocietyOCOs Philosophical Transactions the worldOCOs longest running scientific journal Carefully selected by the journalOCOs editor topics include the Big Bang creation of the universe the formation and evolution of the stars and galaxies cold dark matter explosive sun spot events and humankindOCOs exploration of the solar system The book conveys the excitement and enthusiasm of the authors for their work at the frontiers of astronomy All are definitive reviews for people with a general interest in the future directions of science 

Astronomy: A Physical Perspective Marc Leslie Kutner,2003-07-31 This fully revised and updated text is a comprehensive introduction to astronomical objects and phenomena By applying some basic physical principles to a variety of situations students will learn how to relate everyday physics to the astronomical world Starting with the simplest objects the text contains explanations of how and why astronomical phenomena occur and

how astronomers collect and interpret information about stars galaxies and the solar system The text looks at the properties of stars star formation and evolution neutron stars and black holes the nature of galaxies and the structure of the universe It examines the past present and future states of the universe and final chapters use the concepts that have been developed to study the solar system its formation the possibility of finding other planetary systems and the search for extraterrestrial life This comprehensive text contains useful equations chapter summaries worked examples and end of chapter problem sets

Handbook of Gravitational Wave Astronomy Cosimo Bambi, Stavros Katsanevas, Konstantinos D. Kokkotas, 2022-07-02 This handbook provides an updated comprehensive description of gravitational wave astronomy. In the first part it reviews gravitational wave experiments from ground and space based laser interferometers to pulsar timing arrays and indirect detection from the cosmic microwave background In the second part it discusses a number of astrophysical and cosmological gravitational wave sources including black holes neutron stars possible more exotic objects and sources in the early Universe The third part of the book reviews the methods to calculate gravitational waveforms. The fourth and last part of the book covers techniques employed in gravitational wave astronomy data analysis This book represents both a valuable resource for graduate students and an important reference for researchers in gravitational wave astronomy Handbook of X-ray Astronomy Keith Arnaud, Randall Smith, Aneta Siemiginowska, 2011-09-29 Modern x ray data available through online archives are important for many astronomical topics However using these data requires specialized techniques and software Written for graduate students professional astronomers and researchers who want to start working in this field this book is a practical guide to x ray astronomy The handbook begins with x ray optics basic detector physics and CCDs before focussing on data analysis It introduces the reduction and calibration of x ray data scientific analysis archives statistical issues and the particular problems of highly extended sources The book describes the main hardware used in x ray astronomy emphasizing the implications for data analysis The concepts behind common x ray astronomy data analysis software are explained The appendices present reference material often required during data analysis History of Astronomy John Lankford, 1997 First Published in 1997 Routledge is an imprint of Taylor Francis an informa company Astronomers and Cosmologists Dean Miller, 2014-01-01 In this book a breakdown of the life and work of some of history s pioneers in the study of astronomy and cosmology are thoroughly explored This volume provides excellent biographical sketches for trailblazers in the sciences Articles are devoted to specific scientists covering the contributions to their field specifically addressing how their research discoveries and inventions impacted human understanding and experience This historical review includes scientists from around the world and throughout the centuries with a chapter specifically devoted to the top scientific contributors of the 21st century Relativity in Fundamental Astronomy (IAU S261) International Astronomical Union. Symposium, 2010-01-28 IAU S261 summarizes the present state of applied relativity and discusses the applications and future tests of general Astronomy in India: A Historical Perspective Thanu Padmanabhan, 2014-08-20 India has a strong and ancient relativity

tradition of astronomy which seamlessly merges with the current activities in Astronomy and Astrophysics in the country While the younger generation of astronomers and students are reasonably familiar with the current facilities and the astronomical research they might not have an equally good knowledge of the rich history of Indian astronomy This particular volume brought out as a part of the Platinum Jubilee Celebrations of Indian National Science Academy concentrates on selected aspects of historical development of Indian astronomy in the form of six invited chapters Two of the chapters by Balachandra Rao and M S Sriram cover ancient astronomy and the development of calculus in the ancient Kerela text Yuktibhasa The other four chapters by B V Sreekantan Siraj Hasan Govind Swarup and Jayant Narlikar deal with the contemporary history of Indian astronomy covering space astronomy optical astronomy radio astronomy and developments in relativistic astrophysics. These chapters written by experts in the field provide an in depth study of the subject and make this volume quite unique Clocks in the Sky Geoff McNamara, 2008-11-17 Pulsars are rapidly spinning neutron stars the collapsed cores of once massive stars that ended their lives as supernova explosions In this book Geoff McNamara explores the history subsequent discovery and contemporary research into pulsar astronomy. The story of pulsars is brought right up to date with the announcement in 2006 of a new breed of pulsar Rotating Radio Transients RRATs which emit short bursts of radio signals separated by long pauses These may outnumber conventional radio pulsars by a ratio of four to one Geoff McNamara ends by pointing out that despite the enormous success of pulsar research in the second half of the twentieth century the real discoveries are yet to be made including perhaps the detection of the hypothetical pulsar black hole binary system by the proposed Square Kilometre Array the largest single radio telescope in the world **Astronomy** James J. Condon, Scott M. Ransom, 2016-04-05 The ideal text for a one semester course in radio astronomy Essential Radio Astronomy is the only textbook on the subject specifically designed for a one semester introductory course for advanced undergraduates or graduate students in astronomy and astrophysics It starts from first principles in order to fill gaps in students backgrounds make teaching easier for professors who are not expert radio astronomers and provide a useful reference to the essential equations used by practitioners This unique textbook reflects the fact that students of multiwavelength astronomy typically can afford to spend only one semester studying the observational techniques particular to each wavelength band Essential Radio Astronomy presents only the most crucial concepts succinctly and accessibly It covers the general principles behind radio telescopes receivers and digital backends without getting bogged down in engineering details Emphasizing the physical processes in radio sources the book s approach is shaped by the view that radio astrophysics owes more to thermodynamics than electromagnetism Proven in the classroom and generously illustrated throughout Essential Radio Astronomy is an invaluable resource for students and researchers alike The only textbook specifically designed for a one semester course in radio astronomy Starts from first principles Makes teaching easier for astronomy professors who are not expert radio astronomers Emphasizes the physical processes in radio sources Covers the

principles behind radio telescopes and receivers Provides the essential equations and fundamental constants used by practitioners Supplementary website includes lecture notes problem sets exams and links to interactive demonstrations An online illustration package is available to professors The New Astronomy Nigel Henbest, Michael Marten, 1996-08-28 The New Astronomy is a rich kaleidoscope of the finest images of planets stars galaxies and the universe It presents a host of new information gathered from right across the spectrum spanning the colourful universe from X rays through ultraviolet visible and infrared and out to the radio waves Nigel Henbest and Michael Marten take us on a journey in which we view the variety of the cosmos and its contents through every available window The first edition of The New Astronomy created a sensation as no accessible description of modern astronomy had attempted to assemble images from so wide a range For the new edition there are almost 200 entirely new pictures selected from the Hubble Space Telescope and orbiting X ray detectors as well as from very large telescopes based at Mauna Kea Hawaii and in the Canary Islands The new science includes intriguing images from gravitational lenses which are natural telescopes created by black holes inside other galaxies and a full description of the latest images of the background radiation of the universe From the nearby planets to quite literally the edge of the observable universe this book is a brilliant synthesis of all that is new in the astronomy of today Each object described is displayed in a variety of wavelengths The non technical text explains the science behind the objects and it has been Highlights of Astronomy: Volume 14 Karel van der Hucht, 2008-01-21 substantially re written for this second edition Recording the proceedings of the IAU XXVI General Assembly this volume of the IAU Highlights of Astronomy covers virtually all aspects of modern astrophysics as discussed by 2400 participants from 73 countries Notably the common aspects of astrophysical phenomena known to exist in widely differing interstellar environments is thoroughly examined providing fertile cross correlation from one specialisation to another This text highlights the importance of the triennial IAU General Assemblies in bringing together the work of observers and theoreticians in widely different fields but working towards a common goal understanding the physics of the Universe Together with the Proceedings of the IAU Symposia 235 240 this volume examines all of the astrophysics presented at the General Assembly A Companion to Astronomy and Astrophysics Kenneth R. Lang, 2007-01-15 Astronomy and Astrophysics is a comprehensive fundamental up to date reference book It is filled with vital information and basic facts for amateur astronomers and professional astrophysicists and for anyone interested in the Universe from the Earth and other planets to the stars galaxies and beyond Although serious and thorough the language and ideas will attract the general reader as well as students and professionals Astronomy and Astrophysics consists of two main parts a Timeline and a Dictionary The Timeline is a concise history arranged chronologically which provides the complete story of cosmic discovery from early Chinese and Greek astronomy to the latest findings of modern astrophysics and robotic spacecraft It provides a sense of destination and flow in our growing awareness of the Universe Each entry in the unfolding narrative is written in a concise light and friendly style that will be appreciated by all without

being weighted down with incomprehensible specialized terms The story of science is one of individuals as well as discoveries and ideas So our Timeline includes the people who have made major scientific contributions that are related to astronomy and astrophysics The Dictionary defines all terms and acronyms that deal with our celestial science from important concepts to individual objects and space missions It is arranged alphabetically and complemented by numerous tables of fundamental data for bright cosmic objects including the celestial coordinates required to observe them Line drawings are also used to forcefully compact a scientific insight with clear labels and captions An exceptionally thorough Index cross references concepts discoveries and individuals in both the Timeline and Dictionary The combined result is a unique comprehensive stand alone reference volume in which the reader can quickly locate information while also discovering new and unexpected knowledge

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