

SERIES IN ASTRONOMY AND ASTROPHYSICS



# FUNDAMENTALS OF RADIO ASTRONOMY

*Observational Methods*

JONATHAN M. MARR  
RONALD L. SNELL  
STANLEY E. KURTZ



CRC Press  
Taylor & Francis Group

# Fundamentals Of Radio Astronomy Observational Methods Series In Astronomy And Astrophysics

**Harvard University**



## **Fundamentals Of Radio Astronomy Observational Methods Series In Astronomy And Astrophysics:**

Fundamentals of Radio Astronomy Jonathan M. Marr, Ronald L. Snell, Stanley E. Kurtz, 2015-11-30 As evidenced by five Nobel Prizes in physics radio astronomy in its 80 year history has contributed greatly to our understanding of the universe Yet for too long there has been no suitable textbook on radio astronomy for undergraduate students *Fundamentals of Radio Astronomy* Observational Methods is the first undergraduate level textbook exclus Taylor & Francis Group, 2021-03-31 Physical Principles of Astronomical Instrumentation Peter A. R. Ade, Matthew J. Griffin, Carole E. Tucker, 2021-11-15 Offering practical advice on a range of wavelengths this highly accessible and self contained book presents a broad overview of astronomical instrumentation techniques and tools Drawing on the notes and lessons of the authors established graduate course the text reviews basic concepts in astrophysics spectroscopy and signal analysis It includes illustrative problems and case studies and aims to provide readers with a toolbox for observational capabilities across the electromagnetic spectrum and the knowledge to understand which tools are best suited to different observations It is an ideal guide for undergraduates and graduates studying astronomy Features Presents a self contained account of a highly complex subject Offers practical advice and instruction on a wide range of wavelengths and tools Includes case studies and problems for further learning opportunities Solutions Manual available upon qualifying course adoption

Introduction to Cosmic Inflation and Dark Energy Konstantinos Dimopoulos, 2020-11-24 Cosmic inflation and dark energy hold the key to the origin and the eventual fate of the Universe Despite the increasing prominence of these subjects in research and teaching over the past decade or more no introductory textbook dedicated to these topics has been previously published Dr Konstantinos Dimopoulos is a highly regarded expert in the field and an experienced communicator of the subject to students In this book he provides advanced undergraduate and early graduate students with an accessible introduction and equips them with the tools they need to understand the cosmology of cosmic inflation and dark energy Features Provides a concise pedagogical crash course in big bang cosmology focusing on the dynamics and the history of the Universe with an emphasis on the role of dark energy Chapters contain questions and problems for readers to test their understanding The first book to make cosmic inflation and dark energy accessible to students General Relativity Nicola Vittorio, 2025-07-09 This book provides General Relativity problems to be tackled both analytically and symbolically numerically with the Mathematica software In the first case the reader is guided in setting up the appropriate solutions In the second case the reader is provided with very illustrative notebooks to carry out the steps necessary to solve a General Relativity problem These include the calculation of the Christoffel symbols Riemann Ricci Einstein and energy momentum tensors as well as the resolution of the field equations of General Relativity in different astrophysical cosmological contexts with and without the introduction of a cosmological constant This study guide should be used alongside existing textbooks to provide additional learning and engagement opportunities for advanced undergraduate and graduate students in physics and

astrophysics taking courses on general relativity It may also be of interest to mathematics students interested in celestial mechanics and space sciences A number of the Mathematica codes used in this book can be accessed online here [INSERT URL WHEN AVAILABLE](#) Key Features Promotes the learning by doing approach guiding the student in the building of the mathematical apparatus necessary to solve problems in General Relativity Encourages the development of analytical skills to address and solve specific and challenging problems in General Relativity Develops symbolic numerical skills to address problems often already solved analytically so that the reader is prepared to attack even more elaborate calculations in General Relativity

**An Overview of General Relativity and Space-Time** Nicola Vittorio, 2022-12-29 This textbook equips Masters students studying Physics and Astronomy with the necessary mathematical tools to understand the basics of General Relativity and its applications It begins by reviewing classical mechanics with a more geometrically oriented language continues with Special Relativity and then onto a discussion on the pseudo Riemannian space times Applications span from the inner and outer Schwarzschild solutions to gravitational wave black holes spherical relativistic hydrodynamics and Cosmology The goal is to limit the abstract formalization of the problems to favor a hands on approach with a number of exercises without renouncing to a pedagogical derivation of the main mathematical tools and findings Features Provides a self contained introduction to General Relativity and to its standar applications Presents readers with all the tools necessary for further learning and research in the field Accessible to readers with just foundational knowledge of linear algebra and Lagrangian mechanics

**A Guide to Close Binary Systems** Edwin Budding, Osman Demircan, 2022-05-12 Introduction to Close Binary Systems provides a comprehensive survey and guide to the fast moving field of multiple specifically binary stars with an up to date account of research around close i e interacting pairs Such interactions allow direct quantification of stellar properties opening up factual insights into basic building blocks of the Universe The book provides a much needed update for the seminal Close Binary Systems of Zden k Kopal Following a comparable plan it presents relevant subject matter with an emphasis on building a framework of understanding to serve as a supporting resource for students and researchers The text starts from a general historical background and progresses into the main theoretical ideas supporting our prima facie interpretation of observations The central chapters explore further into these observational methods arranged according to the classic subdivisions of astrometry spectroscopy and photometry Optimal inversion of observational data into model parametrization is a theme through these chapters Significant here is the problem of how non uniqueness in modelling affects interpretation The underlying issues of stellar evolution bearing on observational evidence become paramount in the last four chapters The book proceeds step by step from directly understandable examples of unevolved pairs to the challenging cases where stars are found in more and more extreme conditions leading up to the mergers of massive black hole pairs seen in the new field of gravitational wave astronomy This is a valuable reference for postgraduate and advanced undergraduate students working in mainstream areas of stellar astrophysics with applications also to exoplanet research

which shares some methodological features Course designers for stellar astrophysics will find a useful selection of topics within this book Key features Provides a well explained and backgrounded up to date account of close binary systems in a fast moving field of research that is growing in scientific importance Surveys a wide range of case studies within the context of binary and multiple star systems Fills an acknowledged gap in current literature Cover Image A public memorial to Zdenek Kopal in his home town birthplace of Litomysl in Czechia

**Stellar Explosions** Jordi Jose,2016-01-05 Stars are the main factories of element production in the universe through a suite of complex and intertwined physical processes Such stellar alchemy is driven by multiple nuclear interactions that through eons have transformed the pristine metal poor ashes leftover by the Big Bang into a cosmos with 100 distinct chemical species The products of

Applications of Big Data and Machine Learning in Galaxy Formation and Evolution Tsutomu T. Takeuchi,2025-04-29 As investigations into our Universe become more complex in depth and widespread galaxy surveys are requiring state of the art data scientific methods to analyze them This book provides a practical introduction to big data in galaxy formation and evolution introducing the astrophysical basics before delving into the latest techniques being introduced to astronomy and astrophysics from data science This book helps translate the cutting edge methods into accessible guidance for those without a formal background in computer science It is an ideal manual for astronomers and astrophysicists in addition to graduate students and postgraduate students in science and engineering looking to learn how to apply data science to their research Key Features Introduces applications of data science methods to the exciting subject of galaxy formation and evolution Provides a practical guide to understanding cutting edge data scientific methods as well as classical astrostatistical methods Summarises a vast range of statistical and informatics methods in one volume with concrete applications to astrophysics

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