

Kenneth R. Lang

# Astrophysical Data: Planets and Stars



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## **Astrophysical Data Planets And Stars:**

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The Astrophysics of Emission-Line Stars Tomokazu Kogure,Kam-Ching Leung,2010-05-05 Many types of stars show conspicuous emission lines in their optical spectra These stars are broadly referred to as emission line stars Emission line stars are attractive to many people because of their spectacular phenomena and their amazing varieties and variability This book offers general information on emission line stars starting from a brief introduction to stellar astrophysics and then moving to a broad overview of emission line stars including early and late type stars as well as pre main sequence stars Detailed references and index are prepared for further reading Tomokazu Kogure s email address tkogure pa2 so net ne jp

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Infrared Space Interferometry: Astrophysics & the Study of Earth-Like Planets C. Eiroa,A. Alberdi,Harley A. Thronson Jr.,T. de Graauw,C.J. Schalinski,2012-12-06 The past year has produced some of the most exciting results in the history of astronomy particularly in the area of planets outside our solar system Only a half year before our meeting in Toledo Spain the first unambiguous detection of planet sized masses orbiting main sequence stars were reported Since that time evidence for a new exo planet has been reported almost at the rate of about once per month Some of these objects are likely to turn out to be very low mass stars but something like half show characteristics Jupiter like mass and near zero orbital eccentricity which appear to be

unique to planets Almost at the same time that giant planets were being discovered regularly the two major space agencies ESA and NASA have identified searches for and detailed study of Earth like planets as a major priority for the future In ESA's Horizon 2000 Plus programme an infrared interferometer has been proposed as a possible future Cornerstone mission Similarly scientists in the US produced the Road Map for the Exploration of Neighboring Planetary Systems ExNPS which provided NASA with a long term plan which leads also to an infrared interferometer in space to study hypothetical Earth like worlds beyond our Solar System Such an observatory is designed to search for the thermal emission from a family of planets using interferometric nulling to remove the contaminating light from the central star Compendium of Practical

Astronomy Günter D. Roth, 2012-12-06 It is a pleasure to present this work which has been well received in German speaking countries through four editions to the English speaking reader We feel that this is a unique publication in that it contains valuable material that cannot easily if at all be found elsewhere We are grateful to the authors for reading through the English version of the text and for responding promptly for the most part to our queries Several authors have supplied us on their own initiative or at our suggestion with revised and updated manuscripts and with supplementary English references We have striven to achieve a translation of Handbuch für Sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original German text Where appropriate we have inserted footnotes to clarify material which may have a different meaning and or application in English speaking countries from that in Germany When the first English edition of this work Astronomy A Handbook translated by the late A Beer appeared in 1975 it contained 21 chapters This new edition is over twice the length and contains 28 authored chapters in three volumes At Springer's request we have devised a new title Compendium of Practical Astronomy to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages **Literature 1992, Part 1** Astronomisches Recheninstitut, 2013-11-11 Astronomy and Astrophysics Abstracts

appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world

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structure equations of temperature density pressure and luminosity among others The process and application of solving these equations is explained as well as linking these results with actual observations The second part of the text describes what happens to a star over time and how to determine this by solving the same equations at different points during a star's lifetime The fate of various stars is quite different depending on their masses and this is described in the final parts of the book This text can be used for an upper level undergraduate course or an introductory graduate course on stellar physics

**Fundamentals of Astronomy** C Barbieri, 2017-11-22 Providing a broad overview of foundational concepts Fundamentals of Astronomy covers topics ranging from spherical astronomy to celestial mechanics closing with two chapters that discuss elements of astronomical photometry and spectroscopy Supplementary and explanatory notes at the end of each chapter provide references to material published in scientific journals and solved and unsolved exercises allow students to review their understanding of the material Broad in coverage the book presents arguments from classical astronomy such as spherical astronomy that form the foundation for future work in the field Features Provides an introductory vision of arguments from spherical astronomy to celestial mechanics to astronomical photometry and spectroscopy Presents the information at an introductory level without sacrificing scientific rigor Includes worked examples references and Web site evaluations

**An Introduction to Modern Astrophysics** Bradley W. Carroll, Dale A. Ostlie, 2017-09-07 A comprehensive and engaging textbook covering the entire astrophysics curriculum in one volume

**Pulsars as Astrophysical Laboratories for Nuclear and Particle Physics** Fridolin Weber, 2017-09-18 Pulsars generally accepted to be rotating neutron stars are dense neutron packed remnants of massive stars that blew apart in supernova explosions They are typically about 10 kilometers across and spin rapidly often making several hundred rotations per second Depending on star mass gravity compresses the matter in the cores of pulsars up to more than ten times the density of ordinary atomic nuclei thus providing a high pressure environment in which numerous particle processes from hyperon population to quark deconfinement to the formation of Boson condensates may compete with each other There are theoretical suggestions of even more exotic processes inside pulsars such as the formation of absolutely stable strange quark matter a configuration of matter even more stable than the most stable atomic nucleus  $^{56}\text{Fe}$  In the latter event pulsars would be largely composed of pure quark matter eventually enveloped in nuclear crust matter These features combined with the tremendous recent progress in observational radio and x ray astronomy make pulsars nearly ideal probes for a wide range of physical studies complementing the quest of the behavior of superdense matter in terrestrial collider experiments Written by an eminent author Pulsars as Astrophysical Laboratories for Nuclear and Particle Physics gives a reliable account of the present status of such research which naturally is to be performed at the interface between nuclear physics particle physics and Einstein's theory of relativity

**Planetary Nebulae** R. Weinberger, A. Acker, 2012-12-06 Planetary nebulae are a keystone for the understanding of the evolution of stars for deep insights into the physical processes prevailing in highly excited dilute

nebulae and for the chemical evolution in galaxies These objects displaying an intriguing morphology have a short lifetime of a few tens of thousands of years and have become one of the best studied classes of celestial sources However despite large and successful efforts from both the observational and theoretical side planetary nebulae still keep some of their secrets like the widely unknown distances and will undoubtedly also be objects of thorough investigations in the years to come

*An Introduction to Active Galactic Nuclei* Bradley M. Peterson, 1997-02-13 How can we test if a supermassive black hole lies at the heart of every active galactic nucleus What are LINERS BL Lacs N galaxies broad line radio galaxies and radio quiet quasars and how do they compare This timely textbook answers these questions in a clear comprehensive and self contained introduction to active galactic nuclei for graduate students in astronomy and physics The study of AGN is one of the most dynamic areas of contemporary astronomy involving one fifth of all research astronomers This textbook provides a systematic review of the observed properties of AGN across the entire electromagnetic spectrum examines the underlying physics and shows how the brightest AGN quasars can be used to probe the farthest reaches of the Universe This book serves as both an entry point to the research literature and as a valuable reference for researchers in the field

*Advances in Machine Learning and Data Mining for Astronomy* Michael J. Way, Jeffrey D. Scargle, Kamal M. Ali, Ashok N. Srivastava, 2012-03-29 *Advances in Machine Learning and Data Mining for Astronomy* documents numerous successful collaborations among computer scientists statisticians and astronomers who illustrate the application of state of the art machine learning and data mining techniques in astronomy Due to the massive amount and complexity of data in most scientific disciplines the material discussed in this text transcends traditional boundaries between various areas in the sciences and computer science The book's introductory part provides context to issues in the astronomical sciences that are also important to health social and physical sciences particularly probabilistic and statistical aspects of classification and cluster analysis The next part describes a number of astrophysics case studies that leverage a range of machine learning and data mining technologies In the last part developers of algorithms and practitioners of machine learning and data mining show how these tools and techniques are used in astronomical applications With contributions from leading astronomers and computer scientists this book is a practical guide to many of the most important developments in machine learning data mining and statistics It explores how these advances can solve current and future problems in astronomy and looks at how they could lead to the creation of entirely new algorithms within the data mining community

**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 *Astronomy in the Near-Infrared - Observing Strategies and Data Reduction Techniques* Jochen Heidt, 2022-07-04 Near infrared astronomy has become one of the most rapidly developing branches in modern astrophysics Innovative observing techniques near infrared detectors with quantum efficiencies in excess of 90% highly specialised instruments as well as advanced data reduction techniques have allowed major breakthroughs in various areas like exoplanets star forming regions the supermassive black hole in the Galactic center and the high redshift Universe In this book the reader will be introduced to the basic concepts of how to prepare near infrared observations with maximized scientific return Equal weight is given to all aspects of the data reduction for both imaging and spectroscopy Information is also provided on the state of the art instrumentation available and planned on detector technology or the physics of the atmosphere all of which influence the preparation and execution of observations and data reduction techniques The beginner but also the expert will find a lot of information in compact form which is otherwise widely dispersed across the internet or other sources *Vistas in Astronomy*, 1992

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