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Edited by Michael Friedjung and Roberto Viotti

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The Nature of Symbiotic Stars International Astronomical Union. Colloquium, 1982 The Nature of Symbiotic Stars M. Friedjung, Roberto Viotti, 2012-12-06 Many aspects of symbiotic stars have long puzzled astronomers For instance while most students of the subject have considered them binary many have at different times supported single star models The nature of their outbursts is uncertain while the dividing line between symbiotic stars and novae is unclear In any case doubts can even be raised as to whether a class of Symbiotic Stars really exists Much new data has been obtained in recent years in particular from the study of radiation outside the visual region Many symbiotic stars have been studied in the UV with IUE since 1978 while X rays were detected in a few cases with the Einstein satellite There have been a number of infrared and radio studies and the number of known symbiotic stars has also considerably increased Furthermore theoretical ideas have in recent years been considerably enriched by concepts of stellar winds and accretion phenomena in binaries including accretion disks It was therefore extremely opportune and timely to hold the first international meeting exclusively devoted to these stars so as to consider the new results from such a wide range of observations in different spectral regions and the conclusions which can be drawn for possible models as well as theories of the nature and structure of symbiotic stars After a session devoted to new observations in different spectral regions a session was spent considering some individual stars *The Nature of Symbiotic Stars* M. Friedjung, Roberto Viotti, 1982-06-30 Many aspects of symbiotic stars have long puzzled astronomers For instance while most students of the subject have considered them binary many have at different times supported single star models The nature of their outbursts is uncertain while the dividing line between symbiotic stars and novae is unclear In any case doubts can even be raised as to whether a class of Symbiotic Stars really exists Much new data has been obtained in recent years in particular from the study of radiation outside the visual region Many symbiotic stars have been studied in the UV with IUE since 1978 while X rays were detected in a few cases with the Einstein satellite There have been a number of infrared and radio studies and the number of known symbiotic stars has also considerably increased Furthermore theoretical ideas have in recent years been considerably enriched by concepts of stellar winds and accretion phenomena in binaries including accretion disks It was therefore extremely opportune and timely to hold the first international meeting exclusively devoted to these stars so as to consider the new results from such a wide range of observations in different spectral regions and the conclusions which can be drawn for possible models as well as theories of the nature and structure of symbiotic stars After a session devoted to new observations in different spectral regions a session was spent considering some individual stars **An Investigation Into the Nature of the Symbiotic Stars** Mark Haines Slovak, 1982 **The Impact of Binary Stars on Stellar Evolution** Giacomo Beccari, Henri M. J. Boffin, 2019-04-18 Stars are mostly found in binary and multiple systems with at least 50% of all solar like stars having companions this fraction approaches 100% for the most massive stars A large proportion of these systems interact and alter the structure and evolution of their components leading to exotic

objects such as Algol variables blue stragglers and other chemically peculiar stars but also to phenomena such as non spherical planetary nebulae supernovae and gamma ray bursts While it is understood that binaries play a critical role in the Initial Mass Function the interactions among binary systems significantly affect the dynamical evolution of stellar clusters and galaxies This interdisciplinary volume presents results from state of the art models and observations aimed at studying the impact of binaries on stellar evolution in resolved and unresolved populations Serving as a bridge between observational and theoretical astronomy it is a comprehensive review for researchers and advanced students of astrophysics

The Physical Nature of the Symbiotic Stars Scott Jay Kenyon, 1983

Literature 1982, Part 2 Siegfried Böhme, Professor Dr. Walter Fricke, Herbert Hefele, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Vladimir R. Matas, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-09

Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documenta tion of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumu lating abstracts for about six months offers the advantage of greater convenience for the user Volume 32 contains literature published in 1982 and received before February 11 1983 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bou a Prague who surveyed journals and publications in Czech and supplied us with abstracts in English

The Analysis of Starlight John B. Hearnshaw, 2014-03-17 First published in 1986 this is the story of the analysis of starlight by astronomical spectroscopy Beginning with Joseph Fraunhofer s discovery of spectral lines in the early nineteenth century this new edition continues the story through to the year 2000 In addition to the key discoveries it presents the cultural and social history of stellar astrophysics by introducing the leading astronomers and their struggles triumphs and disagreements Basic concepts in spectroscopy and spectral analysis are included so both observational and theoretical aspects are described in a non mathematical framework This new edition covers the final decades of the twentieth century with its major advances in stellar astrophysics the discovery of extrasolar planets new classes of stars and the observation of the ultraviolet spectra of stars from satellites The in depth coverage makes it essential reading for graduate students working in stellar spectroscopy professional and amateur astronomers and historians of science

Symbiotic Stars Probing Stellar Evolution Romano L. M. Corradi, Joanna Mikolajewska, T. J. Mahoney, 2003

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

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 *Literature*

1983, *Part 1* S. Böhme,Prof. Dr. Walter Fricke,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,Dr. Lutz D. Schmadel,G. Zech,2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 33 records literature published in 1983 and received before August 1 1983 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura Ms Monika Kohl and Ms Sylvia Matyssek Mr Martin Schlotelburg and Mr Ulrich Uberall supported our task by careful proofreading It is a pleasure to thank them all for their encouragement Heidelberg September 1983 The Editors Contents Introduction 1 Concordance Relation ICSU AB AAA 3 Abbreviations 10 Periodicals Proceedings Books Activities 001 Periodicals 15 002 Bibliographical Publications Documentation Catalogues Atlases 47 003 Books 51 004 History of Astronomy 58 005 Biography 64 006 Personal Notes 65 007 Obituaries The Realm of Interacting Binary Stars J.

Sahade,G.E. McCluskey,Y. Kondo,2012-12-06 More than two centuries have elapsed since the story of the interacting binary stars began with the rediscovery of the variability of Algol by John Goodricke and the interpretation he proposed for explaining the regular periodic brightness variations which he found Over this long span of time our knowledge about these systems has been growing and we have now reached a fairly good understanding of the structure and behavior of this interesting group of objects This book contains a timely summary of our present knowledge of interacting binary stars The

chapters have been written by distinguished scientists who have done relevant research in the field of interacting binary stars

RS Ophiuchi (1985) and the Recurrent Nova Phenomenon M. F. Bode, 1987-12 This international conference brought together over 50 astronomers from around the world The meeting centred around a single object the recurrent nova RS Ophiuchi a star which had undergone four recorded outbursts before the latest event in 1985 Observations of previous outbursts discussed in detail in one of the review talks already indicated that RS Ophiuchi is a unique object of great astronomical significance The outburst mechanism is probably similar to that of classical novae but the interaction of the ejecta with a pre existing shell of material give it the characteristics of a young supernova remnant However unlike supernova remnants the evolution occurs before our very eyes Following the latest outburst a frenzy of activity ensued resulting in the acquisition of detailed observations from the radio where rapidly expanding jets were discovered to the X ray where RS Ophiuchi turned out to be one of the brightest soft X ray sources yet observed The Proceedings report the many exciting and unexpected observational results right across the electromagnetic spectrum in both RS Ophiuchi and related objects Theoretical work on the cause of the outburst and remnant evolution is also given prominence The result is a much fuller understanding of RS Ophiuchi and its important standing in several branches of astrophysical research

Scientific and Technical Aerospace Reports, 1995-08

Catalog of Infrared Observations Daniel Y. Gezari, 1987

Catalog of Infrared Observations: Appendixes Daniel Y. Gezari, 1987

Cataclysmic Variables and Related Objects Margherita Hack, Constanze La Dous, 1993 This volume begins with an introductory chapter on general properties of cataclysmic variables Chapters 2 through 5 of Part 1 are devoted to observations and interpretation of dwarf novae and nova like stars Chapters 6 through 10 Part 2 discuss the general observational properties of classical and recurrent novae the theoretical models and the characteristics and models for some well observed classical novae and recurrent novae Chapters 11 through 14 of Part 3 are devoted to an overview of the observations of symbiotic stars to a description of the various models proposed for explaining the symbiotic phenomenon and to a discussion of a few selected objects respectively Chapter 15 briefly examines the many unsolved problems posed by the observations of the different classes of cataclysmic variables and symbiotic stars

The Impact of Long-Term Monitoring on Variable Star Research C. Sterken, Mart de Groot, 2012-12-06

Long term monitoring is of fundamental significance in solving many important problems in astrophysics and furthermore has unequalled value in extending observational runs with small telescopes for the education of young astronomers in order to teach them how to secure high quality observational data over many years The Impact of Long Term Monitoring on Variable Star Research contains reports based on the analysis of data collected in the visible IR and radio measurement ranges as well as the design and history of well known photometric systems Though the reporting of novel results forms an important part of the book there are also reports of eight discussion sessions covering more general areas such as extinction monitoring the problems of archival storage of astronomical data service observation the role played by long term monitoring

in graduate teaching and thesis supervision the interplay between the great observational effort and theory the contribution of LTM to new knowledge of fundamental data and the increasing decommissioning of telescopes of modest aperture

Evolution of Peculiar Red Giant Stars International Astronomical Union. Colloquium, 1989-06-22 Red giant stars are evolutionarily advanced objects in the closing stages of their nuclear burning lifetime Observed with increasing spectral coverage they display a variety of unusual phenomena Many are characterized by peculiar non solar surface chemical compositions which provide otherwise unobtainable clues to interior nucleosynthesis mixing and evolution Others may have received their chemical peculiarities by mass transfer from a companion This book reports on the proceedings of the International Astronomical Union Colloquium 106 It contains discussions on many aspects of these stars combining theory and observation to interpret these objects in terms of their evolutionary history There are 20 review papers 69 abstracts and short contributed papers and a complete transcript of the valuable summary panel discussion Professional astronomers will find this book useful as a reference work which incorporates current research on the modelling and evolution of these unstable stars

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web s g cast iron is defined as a high carbon containing iron based alloy in which the graphite is present in compact spherical

shapes rather than in the shape of flakes the latter being typical of gray cast iron as nodular or spheroid cal graphite cast iron sometimes referred to as ductile iron constitutes a family of cast irons in which the

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web ductile iron also known as ductile cast iron nodular cast iron spheroidal graphite iron spheroidal graphite cast iron 1 and sg iron is a type of graphite rich cast iron discovered in 1943 by keith millis 2 while most varieties of cast iron are weak in tension and brittle ductile iron has much more impact and fatigue resistance due

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web sometimes referenced as a adaptable adamant bs2789 casting 500 7 is a spheroidal graphite adamant that offers bigger strength chafe attrition and hardening capabilities to that of 400 15 or 420 12 s g adamant grades

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web uni 4544 gs500 7 ductile cast iron the sg iron grade gs500 7 in standard uni 4544 is also known as grade 500 7 iso 1083 qt500 7 gb 1348 and 70 50 05 astm a536 this material grade is also equal to ggg50 din 1693 en gjs 500 7 en 1563 fcd 500 jis g5502 500 7 bs 2789 etc

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web the following six grades of spheroidal cast iron for this category are sg 700 2a sg 600 3a sg 500 7a sg 400 15a sg 400 i8a and sg 350 22a 3 2 1 these grades normally apply to castings of thickness between 30 mm and 200 mm and with a unit mass greater than 2 000 kg

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web the normal chemical composition for this grade is as the following c 2 7 3 7 si 0 8 2 9 mn 0 3 0 7 p 0 1 s 0 02 the

chemical composition has big difference in different standards all compositions are just for reference

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web sg iron is also called as spheroidal graphite cast iron in usa they are also called as ductile iron there are many different sg iron grades in different countries and standards however most of grades have similar requirements to the mechanical properties especially to tensile strength yield strength and elongation

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web chemical composition mass fraction wt of the sg 500 7 element min max similar the data is being updated mechanical properties of steel grade sg 500 7 physical properties of steel grade sg 500 7 heat treatment of steel grade sg 500 7 heat treated 1491 c 1214 c technological curves of steel grade sg 500 7 no curve

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web en gjs 500 7 is an sg iron grade containing graphite nodules or spheres spheroidal graphite the rounded graphite nodules produces a more ductile cast iron that inhibits the formation of cracks sg iron such as en gjs 500 7 has a greater fatigue and impact resistance compared to grey iron

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