



Stellar Rotation

Jean Louis Tassoul



Stellar Rotation:

Physics, Formation and Evolution of Rotating Stars Andre Maeder, 2008-12-19 Rotation is ubiquitous at each step of stellar evolution from star formation to the final stages and it affects the course of evolution the timescales and nucleosynthesis Stellar rotation is also an essential prerequisite for the occurrence of Gamma Ray Bursts In this book the author thoroughly examines the basic mechanical and thermal effects of rotation their influence on mass loss by stellar winds the effects of differential rotation and its associated instabilities the relation with magnetic fields and the evolution of the internal and surface rotation Further he discusses the numerous observational signatures of rotational effects obtained from spectroscopy and interferometric observations as well as from chemical abundance determinations helioseismology and asteroseismology etc On an introductory level this book presents in a didactical way the basic concepts of stellar structure and evolution in track 1 chapters The other more specialized chapters form an advanced course on the graduate level and will further serve as a valuable reference work for professional astrophysicists

The Rotation of Sun and Stars

Jean-Pierre Rozelot, 2008-11-27 The Sun and stars rotate in different ways and at different velocity rates The knowledge of how they rotate is important in understanding the formation and evolution of stars and their structure The closest star to our Earth the Sun is a good laboratory to study in detail the rotation of a G star and allows to test new ideas and develop new techniques to study stellar rotation More or less massive more or less evolved objects however can have a very different rotation rate structure and history In recent years our understanding of the rotation of the Sun has greatly improved The Sun has a well known large scale rotation which can be measured thanks to visible features across the solar disk such as sunspots or via spectroscopy In addition several studies cast light on differential rotation in the convective zone and on meridional circulation in the radiative zone of the Sun Even the rotation of the core of the Sun can now be studied thanks to various methods such as dynamics of the gravitational moments and of course helioseismology through g modes analysis Moreover the magnetic field is strongly linked to the matter motions in the solar plasma The solar magnetic field can be measured only at the surface or in the upper layers It is the product of the internal dynamo or of the local dynamos if they exist in any case magnetic field and rotation cannot thus be separated

Rotation and Mixing in Stellar Interiors

Marie-Jo Goupil, Jean-Paul Zahn, 1990 *Stellar Rotation* Jean-Louis Tassoul, 2000-04-13 Like the Earth and planets stars rotate Understanding how stars rotate is central to modelling their structure formation and evolution and how they interact with their environment and companion stars This authoritative volume first published in 2000 provides a lucid introduction to stellar rotation and the definitive reference to the subject It combines theory and observation in a comprehensive survey of how the rotation of stars affects the structure and evolution of the Sun single stars and close binaries This book will be of primary interest to graduate students and researchers studying solar and stellar rotation and close binary systems It will also appeal to those with a more general interest in solar and stellar physics star formation binary stars and the hydrodynamics of rotating fluids including

geophysicists planetary scientists and plasma physicists **Stellar Rotation** A. Slettebak, 2012-12-06 The International Astronomical Union Colloquium on Stellar Rotation was held at the Ohio State University in Columbus Ohio U S A from September 8th through 11 th 1969 Forty four scientists from Argentina Belgium Canada England Finland East and West Germany Italy Israel Japan The Netherlands and the United States attended and participated in the Colloquium The present volume which parallels the actual program closely contains the papers presented at the Colloquium plus most of the discussion following those papers The Colloquium was sponsored by the International Astronomical Union the Ohio State University and the National Science Foundation It is a pleasure to record my thanks to these organizations and especially to Dr Geoffrey Keller Dean of the College of Mathematics and Physical Sciences of the Ohio State University and to Prof C de Jager Assistant General Secretary of the International Astronomical Union for their kind cooperation I am also grateful to H A Abt J Hardorp R P Kraft Mrs A Mashevitch M Plavec 1 W Roxburgh and E Schatzman of the Organizing Committee as well as A J Deutsch and G W Collins II for their help in planning the Colloquium all of them offered valuable suggestions toward organizing the program The Exoplanet Handbook Michael Perryman, 2018-08-30 With the discovery of planets beyond our solar system 25 years ago exoplanet research has expanded dramatically with new state of the art ground based and space based missions dedicated to their discovery and characterisation With more than 3 500 exoplanets now known the complexity of the discovery techniques observations and physical characterisation have grown exponentially This Handbook ties all these avenues of research together across a broad range of exoplanet science Planet formation exoplanet interiors and atmospheres and habitability are discussed providing in depth coverage of our knowledge to date Comprehensively updated from the first edition it includes instrumental and observational developments in depth treatment of the new Kepler mission results and hot Jupiter atmospheric studies and major updates on models of exoplanet formation With extensive references to the research literature and appendices covering all individual exoplanet discoveries it is a valuable reference to this exciting field for both incoming and established researchers **NASA Thesaurus** ,1988 **Black Holes in the Era of Gravitational-Wave Astronomy** Manuel Arca Sedda, Elisa Bortolas, Mario Spera, 2024-05-14 Black Holes in the Era of Gravitational Wave Astronomy provides a multidisciplinary up to date view of the physics of black holes along with an exhaustive overview of crucial open questions and recent advancements in the astrophysics of black holes in the wake of incredible advancements made in the last decade It includes discussions on improvements in theoretical modeling and observational perspectives for black holes of all sizes along with associated challenges The book s structure and themes will enable an entwined understanding of black hole physics at all scales thus avoiding the compartmentalized view that is typical of more specialized manuscripts and reviews This book is a complete reference for scientists interested in a multidirectional approach to the study of black holes It provides substantial discussions about the interplay of different types of black holes and gives professionals a heterogeneous and comprehensive overview of the astrophysics of black holes of all masses

Focuses on recent advances and future perspectives surrounding black holes providing researchers with a clear view of cutting edge research Offers readers a multidisciplinary fresh view on black holes discussing and reviewing the most recent advancements in theoretical numerical and observational techniques put in place to detect black holes Provides a bridge among different black hole areas fostering new collaborations among professionals working in different but intrinsically interconnected fields

Stellar Rotation Arnold Hanslmeier, Roman Brajša, 2024-06-25 This textbook highlights mechanisms properties observations and research progress of solar and stellar rotation The rotation of stars is a basic parameter that enters into the dynamo mechanisms that generates stellar activity The faster stars rotate the higher stellar activity Moreover the rotation can also be used to determine stellar ages Only in the case of the Sun we can directly observe details and therefore determine e g the differential rotation Thus the Sun is a prototype for studying other stars The textbook presents techniques that enable to determine rotation on stars and give a comparison of how stars rotate according to their spectral type and evolution Special cases are given such as rapidly rotating stars that are strongly deformed into ellipsoids The textbook is intended for professionals and students in Astrophysicists as well as readers interested in science in general

Studying Stellar Rotation and Convection Mariejo Goupil, Kévin Belkacem, Coralie Neiner, Francois Lignières, John J. Green, 2012-12-15 This volume synthesizes the results of work carried out by several international teams of the SIROCO Seismology for Rotation and Convection collaboration It provides the theoretical background required to interpret the huge quantity of high quality observational data recently provided by space experiments such as CoRoT and Kepler Asteroseismology allows astrophysicists to test to model and to understand stellar structure and evolution as never before The chapters in this book address the two groups of topics summarized as Stellar Rotation and Associated Seismology as well as Stellar Convection and Associated Seismology The book offers the reader solid theoretical background knowledge and adapted seismic diagnostic techniques

Exoplanets Sara Seager, 2011-01-15 For the first time in human history we know for certain the existence of planets around other stars Now the fastest growing field in space science the time is right for this fundamental source book on the topic which will lay the foundation for its continued growth Exoplanets serves as both an introduction for the non specialist and a foundation for the techniques and equations used in exoplanet observation by those dedicated to the field

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Stellar Rotation Jean Louis Tassoul, 2000

A Treatise on Astronomical Spectroscopy Julius Scheiner, 1894

Stellar Coronae in the Chandra and XMM-Newton Era Fabio Favata, Jeremy J. Drake, 2002

Differential Rotation in Sun-like Stars from Surface Variability and Asteroseismology Martin Bo Nielsen, 2017-01-24 In his PhD dissertation Martin Bo Nielsen performs observational studies of rotation in stars like the Sun The interior rotation in stars is thought to be one of the driving mechanisms of stellar magnetic activity but until now this mechanism was unconstrained by observational data NASA s Kepler space mission provides high precision observations of Sun like stars

which allow rotation to be inferred using two independent methods asteroseismology measures the rotation of the stellar interior while the brightness variability caused by features on the stellar surface trace the rotation of its outermost layers By combining these two techniques Martin Bo Nielsen was able to place upper limits on the variation of rotation with depth in five Sun like stars These results suggest that the interior of other Sun like stars also rotate in much the same way as our own Sun *Modelling of Stellar Atmospheres* International Astronomical Union. Symposium,2003 *Monthly Notices of the Royal Astronomical Society* Royal Astronomical Society,1900 Portfolio of 8 charts accompanies v 83 **Proceedings** American Association for the Advancement of Science,1883 **Proceedings of the American Association for the Advancement of Science** American Association for the Advancement of Science,1883

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