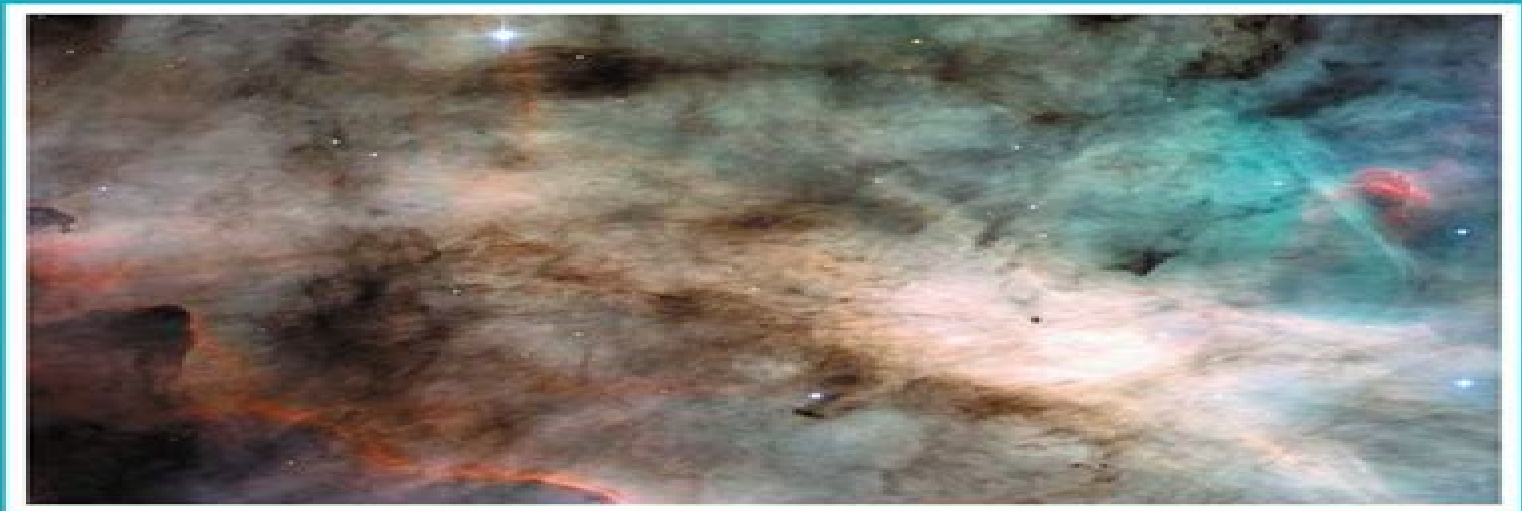


# RADIO RECOMBINATION LINES

## Their Physics and Astronomical Applications

M.A. GORDON  
R.L. SOROCHENKO



# Radio Recombination Lines Their Physics And Astronomical Applications

**Mark Gordon, Roman L. Sorochenko**



## **Radio Recombination Lines Their Physics And Astronomical Applications:**

Radio Recombination Lines M. A. Gordon, R. L. Sorochenko, 2010-08-20      **Radio Recombination Lines** Mark

Gordon, Roman L. Sorochenko, 2002-11-30 This book is a comprehensive guide to the physics and observations of Radio Recombination Lines from astronomical sources written for astronomers physicists and graduate students It is suitable for a graduate level textbook It includes the history of RRL detections the astrophysics underlying their intensities and line shapes including topics like departures from LTE and Stark broadening the maximum possible size of an atom as well as detailed descriptions of the astronomical topics for which RRLs have proved to be effective tools The text includes more than 250 equations and 110 illustrations It also contains hundreds of specific references to the astronomical literature to enable readers to explore additional details The appendix includes supplementary information such as the detailed physics underlying the Bohr atomic model tables of RRL frequencies including fine structure components techniques for calculating hydrogenic oscillator strengths FORTRAN code for calculating departure coefficients and a discussion with formulas for converting observational telescope intensity units to astrophysical ones      Radio Recombination Lines M.A. Gordon, R.L.

Sorochenko, 2009-01-31 This guide to the physics and observations of Radio Recombination Lines from astronomical sources includes history theory applications 250 equations and 110 illustrations This soft cover edition contains corrections and updates from hardbound edition      **Tools of Radio Astronomy** Kristen Rohlfs, T. L. Wilson, 2013-03-14 Progress in the

fields of science and technology is again the reason for updating this text most changes occur in Chaps 4 7 8 and 14 in the others we have made a number of minor improvements In Chap 4 Signal Processing and Receivers we have shortened the presentation of maser and parametric amplifier front ends which are no longer commonly used as microwave receivers in radio astronomy Instead we have expanded the presentation of cooled transistor and superconducting front ends and we have added a short section on coherent multi beam receiver systems The chapter titled Observational Methods now appears as Chap 7 and mainly addresses single dish observations Chapter 8 now concerns Interferometers and Aperture Synthesis Aperture synthesis has become the single important imaging technique in observational astronomy and its use most has spread from the radio frequency range into other wavelength bands providing the only general method available for obtaining images of extremely high resolution and quality The discussion of the foundations for aperture synthesis therefore have been extended and hopefully improved Both the hardware and the software instrumentation is now collected in this chapter      **Screening Constant by Unit Nuclear Charge Method** Ibrahima Sakho, 2018-03-27 The reader will find in this

collection a clear exposition of the method of the Screen Constant by Nuclear Charge Unit which can be applied in a simple and immediate way to many fields of Physics in relation to atomic spectroscopy      **Tools of Radio Astronomy** Thomas

Wilson, Kristen Rohlfs, Susanne Huettmeister, 2008-12-19 Four significant factors have led us to update this text The first is the breathtaking progress in technology especially in receiver and digital techniques The second is the advance of radio

astronomy to shorter wavelengths and the increased availability of astronomical satellites. The third is a need to reorganize some of the chapters in order to separate the basic theory that seldom changes from practical aspects that change often. Finally, it is our desire to enhance the text by including problem sets for each chapter. In view of this ambitious plan, we have expanded the number of authors. In the reorganization of this edition, we have divided Chap 4 of the 4th edition into two Chaps 4 and 5. The first remains Chap 4 with a slightly different title: Signal Processing and Receivers Theory. This was expanded to include digital processing and components including samplers and digitizers. In Chap 5 Practical Receiver Systems, we have relegated the presentations of maser and parametric amplifier front ends, which are no longer commonly used as microwave receivers in radio astronomy, to a short section on historical developments. We have retained and improved the presentations of current state-of-the-art devices: cooled transistor and superconducting front ends. We have also included descriptions of local oscillators and phase-locked loops. Chapters 5 and 6 in the 4th edition have now become Chap 6 Fundamentals of Antenna Theory and Chap 7 *Recollections of "Tucson Operations"*. M.A. Gordon, 2006-03-30. A personal account of the evolution of millimeter-wave astronomy at the US National Radio Astronomy Observatory. The author recounts the behind-the-scenes activities of the staff from the beginnings at Kitt Peak to the closing of the Tucson offices. *Secular Evolution of Galaxies*. Jesús Falcón-Barroso, Johan H. Knapen, 2012. The formation and evolution of galaxies is one of the most important topics in modern astrophysics. Secular evolution refers to the relatively slow dynamical evolution due to internal processes induced by a galaxy's spiral arms, bars, galactic winds, black holes, and dark matter haloes. It plays an important role in the evolution of spiral galaxies with major consequences for galactic bulges, the transfer of angular momentum, and the distribution of a galaxy's constituent stars, gas, and dust. This internal evolution is in turn the key to understanding and testing cosmological models of galaxy formation and evolution. Based on the twenty-third Winter School of the Canary Islands Institute of Astrophysics, this volume presents reviews from nine world-renowned experts on the observational and theoretical research into secular processes and what these processes can tell us about the structure and formation of galaxies. The volume provides a firm grounding for graduate students and early-career researchers working on galactic dynamics and galaxy evolution. *Radio Recombination Lines*. P.A. Shaver, 2012-12-06. Since their first detection 15 years ago, radio recombination lines from several elements have been observed in a wide variety of objects, including HII regions, planetary nebulae, molecular clouds, the diffuse interstellar medium, and recently other galaxies. The observations span almost the entire range from 0.1 to 100 GHz and employ both single-dish and aperture synthesis techniques. The theory of radio recombination lines has also advanced strongly to the point where it is perhaps one of the best understood in astrophysics. In a parallel development, it has become possible over the last decade to study these same highly excited atoms in the laboratory; this work provides further confirmation of the theoretical framework. However, there has been continuing controversy over the astrophysical interpretation of radio recombination line observations, especially regarding the role of stimulated emission. A

workshop was held in Ottawa on 24-25 August 1979 bringing together many of the active scientists to review the field and discuss these questions of interpretation. A broad consensus has emerged: the subtleties of the line formation process are understood and the conditions under which reliable information can easily be extracted from the line measurements are known. It thus appears likely that the emphasis will shift increasingly from the study of the line phenomenon itself to further application in other areas of astrophysics ranging from physical processes in plasmas (temperatures, densities, ionization structure) to the large scale properties of our galaxy (abundances, kinematics, structure) and studies of extragalactic systems.

**Spectral Line Shapes** Marco A. Gigasos, Marco Antonio Gigasos, Manuel Angel Gonzalez, 2008-11-04. This biennial conference is the main international forum for both fundamental and applied works dealing with processes related to the formation of the spectral line profiles and with their use for diagnostic purposes. On the fundamental side, the study of the line profiles reveals the underlying atomic and molecular interactions. On the practical side, the line profiles are employed as powerful diagnostic tools for various media such as neutral gases, technological gas discharges, magnetically confined plasmas for fusion laser and Z-pinch produced plasmas, astrophysical plasmas and planetary atmospheres. *Library of Congress Subject Headings* Library of Congress, Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 1994. **The Observatory**, 2003. A review of astronomy varies. *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 1994. *Bulletin of the Astronomical Society of India* Astronomical Society of India, 1978. Library of Congress Subject Headings: A-E Library of Congress. Subject Cataloging Division, 1989. **Library of Congress Subject Headings** Library of Congress. Subject Cataloging Division, 1988.

**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 is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists. This first-class resource is an essential source of information for undergraduates, graduate students, researchers and seasoned professionals as well as for committed amateurs, librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work. **Scientific and Technical Aerospace Reports**, 1994. Lists citations with abstracts for aerospace-related reports obtained from world-wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database. **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy, 1992. **Nuclear Science Abstracts**, 1976-03.

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