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## Radio Recombination Lines: 25 Years of Investigation: Proceeding of the 125th Colloquium of the International Astronomical Union, Held in Puschino, U.S.S.R., September 11 16, 1989

By -

Springer. Paperback. Book Condition: New. Paperback. 312 pages. Dimensions: 9.2in. x 6.1in. x 0.8in. Text no 1 Radio Recombination Lines (RRLs), discovered in the USSR in 1964, have become a powerful research tool for astronomers. Available throughout the radio spectrum, these lines carry information regarding the density, temperature, turbulence and velocity of thermal plasmas. Their very existence shows the presence of thermal gas. They also can carry information regarding magnetic fields if Zeeman splitting were to be detected. Containing the proceedings of an IAU Colloquium celebrating the 25th anniversary of their detection, this volume tells us what has happened since. It contains the story of the detection of RRLs and reviews of many areas of physics of the interstellar gas from which stars form, HII regions excited by newly formed stars, planetary nebulae involving dying stars, and the structure of our Milky Way and other galaxies reflecting the large-scale morphology of the star formation process. In addition there is an article describing modern laboratory studies of Rydberg atoms to probe the basic physics of atomic structure, and articles describing the theory of collisions and radiation upon Rydberg atoms leading to observable effects to be used as diagnostic tools in astronomy. This book...

### Reviews

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*A must buy book if you need to add benefit. It is actually written in basic phrases and never difficult to understand. I found out this book from my dad and I advised this publication to find out.*

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