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By Kristen Rohlfs, Thomas L. Wilson

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This substantially rewritten and expanded fourth edition outlines the most up-to-date methods and tools of radio astronomy. **Tools of Radio Astronomy** gives a unified treatment of the entire field of radio astronomy, from centimeter to submillimeter wavelengths and using single telescopes as well as interferometers. The basic physical principles are described and a complete outline of the instrumentation, observational techniques, and methods of measurement and analysis are given. The goal of this standard reference and text is to prepare readers to carry out observations and relate the data to physical processes in interstellar space. In this fourth edition, the chapter on interferometry and aperture synthesis has been thoroughly revised in the light of most recent developments, as has been the chapter on molecules in interstellar space, and material on receiver technology.

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