

Exploring the Universe Using Molecular Line Emissions

By [Author's Name]

This book provides a comprehensive overview of the use of molecular line emissions to study the universe. It covers the theoretical background, observational techniques, and applications to a wide range of astrophysical problems.



Observational Molecular Astronomy: Exploring the Universe Using Molecular Line Emissions (Cambridge Observing Handbooks for Research Astronomers Book

10) by Serena Viti

★★★★★ 5 out of 5

Language : English
File size : 5673 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 264 pages
Screen Reader : Supported



Molecular line emissions are a powerful tool for studying the universe because they can provide information about the physical and chemical properties of gas in a variety of environments. This information can be used to study the formation and evolution of galaxies, stars, and planets, as well as the large-scale structure of the universe.

The book begins with a discussion of the theoretical background of molecular line emissions. This includes a review of the basic principles of quantum mechanics and radiative transfer. The book then describes the observational techniques used to measure molecular line emissions. These techniques include radio astronomy, infrared astronomy, and millimeter astronomy.

The second half of the book discusses the applications of molecular line emissions to a wide range of astrophysical problems. These applications include the study of the formation and evolution of galaxies, stars, and planets, as well as the large-scale structure of the universe.

This book is a valuable resource for astronomers and astrophysicists who are interested in using molecular line emissions to study the universe. It is also a useful reference for students who are studying astronomy and astrophysics.

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Author's Biography

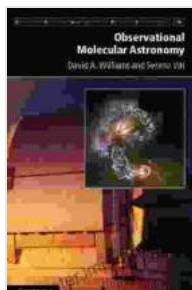
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