



# **Introduction to Astrochemistry: Chemical Evolution from Interstellar Clouds to Star and Planet Formation (Astronomy and Astrophysics Library)**

*Satoshi Yamamoto*

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## **Introduction to Astrochemistry: Chemical Evolution from Interstellar Clouds to Star and Planet Formation (Astronomy and Astrophysics Library) Satoshi Yamamoto**

This important book describes the basic principles of astrochemistry—an interdisciplinary field combining astronomy, physics, and chemistry—with particular emphasis on its physical and chemical background. Chemical processes in diffuse clouds, dense quiescent molecular clouds, star-forming regions, and protoplanetary disks are discussed with a brief introduction to astrochemistry, molecular spectroscopy, and observational techniques. These contents provide astronomers with a comprehensive understanding of how interstellar matter is evolved and brought into stars and planets, which is ultimately related to the origin of the solar system. The subject matter will also be understandable and useful for physical chemists who are interested in exotic chemical processes occurring in extreme physical conditions. The book is a valuable resource for all researchers beginning at the graduate level.

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