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Nota di contenuto	Chapter 1: Interstellar Complex Organic Molecules in Solar-Type Star-Forming Regions: From Observations to Laboratory, Theoretical Computations and Models -- Chapter 2: Gas Phase Chemistry Leading to Interstellar Complex Organic Molecules: There is Still Much to Learn -- Chapter 3: Formation of Complex Molecules in the Translucent Phase via “non-energetic” Processing on C2H2 Ice -- Chapter 4: The Nanocosmos Receivers for Laboratory Astrophysics and Radioastronomical Observations: GACELA and QUIJOTE.
Sommario/riassunto	This volume contains the proceedings of a conference on laboratory astrophysics, which gathered a broad interdisciplinary community of astrophysicists, physicists, chemists, and geophysicists. It provides an update on outstanding results in this research field, the presentation of new laboratory developments, and the recent and expected to come space missions and other astronomical observatories with their specific

needs for laboratory and theoretical studies. Understanding the interplay between dust, ice, and gas during the star lifecycle as well as in planet forming regions and the Solar System is a vast topic in relation with space exploration and astronomical observations. It also strongly relies on laboratory astrophysics activities and chemical modelling in order to simulate the formation and evolution of matter in space. This book provides researchers and graduate students with a valuable account of the current state of this fascinating discipline.