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Nota di contenuto	Galaxy formation -- Stellar Dynamics -- Stellar populations in galaxies: Structure and evolution -- The interstellar medium -- II Astronomical Observations: Methods and Tools Images in astronomy: An overview -- Interferometric imaging in optical astronomy -- Detectors and receivers -- Radio astronomy techniques.
Sommario/riassunto	These eight lectures have been written up in a clear and pedagogical style in order to serve as an introduction for students to fields of modern astrophysical and astronomical research where otherwise textbooks are not available. The first four lectures cover topics in galactic astronomy (formation, structure and evolution of galaxies) and the remaining four are devoted to observational methods and astronomical instrumentation. The lecturers in the European Astrophysical Doctoral Network rank among the most highly respected specialists, and their lectures have been carefully edited and updated before publication.