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Titolo	Outskirts of Galaxies // edited by Johan H. Knapen, Janice C. Lee, Armando Gil de Paz
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Descrizione fisica	1 online resource (362 pages) : illustrations, tables
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Soggetti	Astronomy Astronomy—Observations Astrophysics Cosmology Astronomy, Observations and Techniques Astrophysics and Astroparticles
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Outer regions of the Milky Way -- Resolved stellar populations as tracers of outskirts -- Star formation in the outskirts of galaxies -- Disk fading and regrowth in early-type galaxies -- Imaging haloes and disks -- Outer regions of elliptical galaxies -- ISM in outskirts (HI, CO, etc) -- Observing and modelling metallicities -- The outer regions seen at high redshifts -- Evolution of outer structure -- Constraints from numerical modelling.-Accretion: Theory and modelling -- Future prospects: Deep imaging of galaxy outskirts using telescopes large and small.
Sommario/riassunto	This book consists of invited reviews written by world-renowned experts on the subject of the outskirts of galaxies, an upcoming field which has been understudied so far. These regions are faint and hard to observe, yet hide a tremendous amount of information on the origin and early evolution of galaxies. They thus allow astronomers to address some of the most topical problems, such as gaseous and satellite accretion, radial migration, and merging. The book is published in

conjunction with the celebration of the end of the four-year DAGAL project, an EU-funded initial training network, and with a major international conference on the topic held in March 2016 in Toledo. It thus reflects not only the views of the experts, but also the scientific discussions and progress achieved during the project and the meeting. The reviews in the book describe the most modern observations of the outer regions of our own Galaxy, and of galaxies in the local and high-redshift Universe. They tackle disks, haloes, streams, and accretion as observed through deep imaging and spectroscopy, and guide the reader through the various formation and evolution scenarios for galaxies. The reviews focus on the major open questions in the field, and explore how they can be tackled in the future. This book provides a unique entry point into the field for graduate students and non-specialists, and serves as a reference work for researchers in this exciting new field.
