



Extragalactic Astronomy and Cosmology: An Introduction

By Peter Schneider

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This second edition has been updated and substantially expanded. Starting with the description of our home galaxy, the Milky Way, this cogently written textbook introduces the reader to the astronomy of galaxies, their structure, active galactic nuclei, evolution and large scale distribution in the Universe. After an extensive and thorough introduction to modern observational and theoretical cosmology, the focus turns to the formation of structures and astronomical objects in the early Universe. The basics of classical astronomy and stellar astrophysics needed for extragalactic astronomy are provided in the appendix.

While this book has grown out of introductory university courses on astronomy and astrophysics and includes a set of problems and solutions, it will not only benefit undergraduate students and lecturers; thanks to the comprehensive coverage of the field, even graduate students and researchers specializing in related fields will appreciate it as a valuable reference work.

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Editorial Review

Review

“An obvious difference from many other roughly similar books is the large number of illustrations, many in colour. ... I recommend the book both to students and to those who work in fields other than those covered by the book It is up to date, quite detailed for an introduction, and the numerous figures with references are particularly useful as jumping-off points to the original literature.” (Phillip Helbig, *The Observatory*, April, 2016)

From the Back Cover

Accounting for the astonishing developments in the field of *Extragalactic Astronomy and Cosmology*, this second edition has been updated and substantially expanded. Starting with the description of our home galaxy, the Milky Way, this cogently written textbook introduces the reader to the astronomy of galaxies, their structure, active galactic nuclei, evolution and large scale distribution in the Universe. After an extensive and thorough introduction to modern observational and theoretical cosmology, the focus turns to the formation of structures and astronomical objects in the early Universe. The basics of classical astronomy and stellar astrophysics needed for extragalactic astronomy are provided in the appendix.

The new edition incorporates some of the most spectacular results from new observatories like the Galaxy Evolution Explorer, Herschel, ALMA, WMAP and Planck, as well as new instruments and multi-wavelength campaigns which have expanded our understanding of the Universe and the objects populating it. This includes new views on the galaxy population in the nearby Universe, on elliptical galaxies, as well as a deeper view of the distant Universe approaching the dark ages, and an unprecedented view of the distant dusty Universe. Schneider also discusses the impressive support for the standard model of the Universe, which has been substantially strengthened by recent results, including baryon acoustic oscillations (an approach which has significantly matured over the years), results from the completed WMAP mission and from the first Planck results, which have confirmed and greatly improved on these findings, not least by measuring the gravitational lensing effect on the microwave background. Further, a new chapter focusing on galaxy evolution illustrates how well the observations of distant galaxies and their central supermassive black holes can be understood in a general framework of theoretical ideas, models, and numerical simulations.

Peter Schneider’s *Extragalactic Astronomy and Cosmology* offers fundamental information on this fascinating subfield of astronomy, while leading readers to the forefront of astronomical research. But it seeks to accomplish this not only with extensive textual information and insights; the author’s own passion for exploring the workings of the Universe, which can be seen in the text and the many supporting color illustrations, will further inspire the reader.

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From the reviews of the first edition:

"...Masterful blending of observation and theory; lucid exposition... (D. E. Hogg, CHOICE, Vol. 44 (10), June, 2007)"

"Through the richness of the color illustrations and through the deep insight of the content, the book will most certainly lead the reader to the forefront of astronomical research in this very interesting and fascinating domain of astronomy. ... will not only be highly appreciated by undergraduate students in astronomy but also by graduate students and researchers involved in the field who will certainly appreciate its comprehensive coverage. (Emile Biémont, Physicalia Magazine, Vol. 29 (4), 2007)"

About the Author

Peter Schneider is a Full Professor for Astrophysics at the University of Bonn and Founding Director of the Argelander-Institut für Astronomie, Bonn. He is one of the internationally most respected German astrophysicists, well known for his research on gravitational lensing (strong and weak) and cosmology, and author of 3 successful Springer books.

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