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. Then, from the extensive and thorough introduction to modern observational and theoretical cosmology, the text turns to the formation of structures and astronomical objects in the early universe.

In particular, Peter Schneider's Extragalactic Astronomy and Cosmology has the goal of imparting the fundamental knowledge of 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. In addition, the author's evident admiration for the workings of the universe that shines through the lines and the many supporting color illustrations will deeply inspire the reader.

While this book has grown out of introductory university courses on astronomy and astrophysics, it will not only be appreciated by undergraduate students and lecturers. Through the comprehensive coverage of the field, even graduate students and researchers specializing in related fields will appreciate it as reliable reference.

REVIEW OF THE GERMAN EDITION

This book fills an important gap in astronomy lecture courses. It summarizes the most modern achievements in cosmology, in particular Dark Matter and Dark Energy. I started using it for my introductory astrophysics lectures on the day it appeared.

Prof. Günther Hasinger, Max Planck Institute for Extraterrestrial Physics

During the past years extragalactic astrophysics has made rapid progress. An up-to-date, didactically written summary was not available so far. With its coherent description of the underlying physical principles and the attractive presentation of both the vast observational material and computer simulations, using colorful images throughout, Peter Schneider's textbook fills that gap in an excellent way.

Prof. M. Steinmetz, Astrophysical Institute Potsdam

PRE-PUBLICATION REVIEW OF THE ENGLISH EDITION

I think this could be a superb textbook for courses on galaxies and cosmology, where, alas, there are not many, and certainly none that are up-to-date in the field.

Prof. John Huchra, Harvard University

ISBN 978-3-642-06971-0

9 783642 069710

springer.com