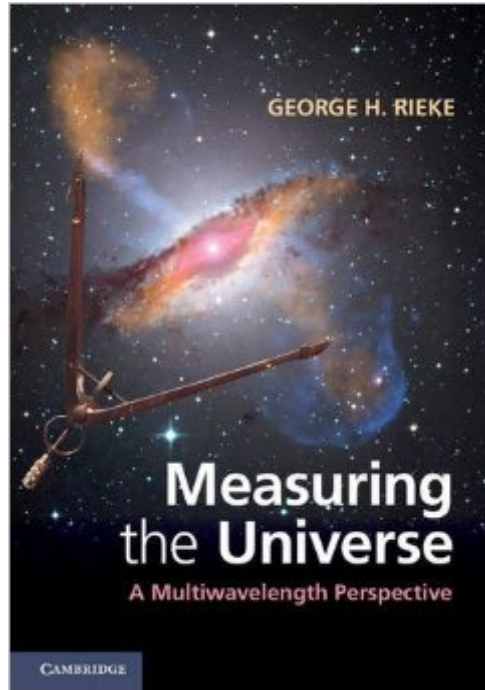


The book was found

# Measuring The Universe: A Multiwavelength Perspective



## Synopsis

Astronomy is an observational science, renewed and even revolutionized by new developments in instrumentation. With the resulting growth of multiwavelength investigation as an engine of discovery, it is increasingly important for astronomers to understand the underlying physical principles and operational characteristics for a broad range of instruments. This comprehensive text is ideal for graduate students, active researchers and instrument developers. It is a thorough review of how astronomers obtain their data, covering current approaches to astronomical measurements from radio to gamma rays. The focus is on current technology rather than the history of the field, allowing each topic to be discussed in depth. Areas covered include telescopes, detectors, photometry, spectroscopy, adaptive optics and high-contrast imaging, millimeter-wave and radio receivers, radio and optical/infrared interferometry, and X-ray and gamma-ray astronomy, all at a level that bridges the gap between the basic principles of optics and the subject's abundant specialist literature. Color versions of figures and solutions to selected problems are available online at [www.cambridge.org/9780521762298](http://www.cambridge.org/9780521762298).

## Book Information

Hardcover: 352 pages

Publisher: Cambridge University Press; 1 edition (August 27, 2012)

Language: English

ISBN-10: 0521762294

ISBN-13: 978-0521762298

Product Dimensions: 6.8 x 0.8 x 9.7 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 3.5 out of 5 stars Â Â See all reviews Â (2 customer reviews)

Best Sellers Rank: #589,598 in Books (See Top 100 in Books) #178 in Â Books > Science & Math > Astronomy & Space Science > Star-Gazing #568 in Â Books > Textbooks > Science & Mathematics > Astronomy & Astrophysics #1259 in Â Books > Science & Math > Astronomy & Space Science > Astronomy

## Customer Reviews

This should be mandatory reading for anyone starting research in Astronomy - observational or otherwise. Basically this book talks about observational astronomy from the radio to gamma rays and even touches on other messenger particles such as cosmic rays, neutrinos and gravitational waves (understandably not in much detail). The level is high enough to be useful to a non-specialist

astronomer. For example, after having read this book, someone who observes primarily in the optical will possess a good enough basic understanding of observational radio astronomy to not get lost when listening to a radio-astronomer talk. At the same time, the book is very far from boring - a hard optimum to achieve. The language is also superb - very colloquial and lively. Good 'down-time' reading. I can think of only two things that will make the book even more useful - a more detailed discussion of what physical phenomena are important at what wavelengths. Perhaps a three-way table connecting astrophysical objects to radiation mechanisms to principal observational characteristics. The second thing is a slightly more detailed discussion of polarimetry - right now it's lumped into the chapter on photometry as a single sub-chapter. Still...fantastic book delightful reading.

The book is OK, but the illustrations are horrible.

[Download to continue reading...](#)

Measuring the Universe: A Multiwavelength Perspective Official Handbook of the Marvel Universe A to Z Volume 2 (Official Handbook to the Marvel Universe a to Z) Measuring the User Experience, Second Edition: Collecting, Analyzing, and Presenting Usability Metrics (Interactive Technologies) Measuring Data Quality for Ongoing Improvement: A Data Quality Assessment Framework (The Morgan Kaufmann Series on Business Intelligence) Measuring the Digital World: Using Digital Analytics to Drive Better Digital Experiences (FT Press Analytics) A Practical Guide to Measuring Usability: 72 Answers to the Most Common Questions about Quantifying the Usability of Websites and Software IT Security Metrics: A Practical Framework for Measuring Security & Protecting Data Mastering Search Analytics: Measuring SEO, SEM and Site Search Podcast Academy: The Business Podcasting Book: Launching, Marketing, and Measuring Your Podcast How to Make Curtains: Measuring and Making the Perfect Window Coverings for Every Room in Your Home. A Storey BASICS® Title Measuring America: How the United States Was Shaped By the Greatest Land Sale in History Measuring America: How an Untamed Wilderness Shaped the United States and Fulfilled the Promise of Democracy Program Administration Scale: Measuring Early Childhood Leadership and Management, Second Edition Fractography: Observing, Measuring and Interpreting Fracture Surface Topography The Lost Science of Measuring the Earth: Discovering the Sacred Geometry of the Ancients Conducting Research in Psychology: Measuring the Weight of Smoke The Seductions of Quantification: Measuring Human Rights, Gender Violence, and Sex Trafficking (Chicago Series in Law and Society) Measuring Quality Improvement in Healthcare: A Guide to Statistical Process Control Applications Measuring Outcomes in Speech-Language Pathology

Measuring ROI in the Public Sector (In Action Case Study Series)

[Dmca](#)