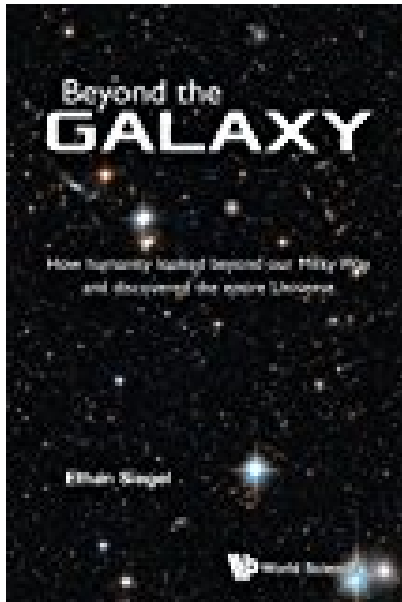


Beyond the Galaxy How Humanity Looked Beyond Our Milky Way and Discovered the Entire Universe



BOOK DETAILS

- Author : Ethan Siegel
- Pages : 388 Pages
- Publisher : World Scientific Publishing Co
- Language : English
- ISBN : 9814667161



BOOK SYNOPSIS

A look up at the night sky reveals a treasury of wonders. Even to the naked eye, the Moon, stars, planets, the Milky Way and even a few star clusters and nebulae illuminate the heavens. For millennia, humans struggled to make sense of what's out there in the Universe, from all we can see to that which lies beyond the limits of even our most powerful telescopes. *Beyond the Galaxy* traces our journey from an ancient, Earth-centered Universe all the way to our modern, 21st century understanding of the cosmos. Touching on not only what we know but also how we know it, Ethan Siegel takes us to the very frontiers of modern astrophysics and cosmology, from the birth of our Universe to its ultimate fate, and everything in between.

Contents: So Far, So Good: The Universe at the Start of the 20th Century
A Relatively Different Story: How Einstein's Relativity Revolutionized Space, Time, and the Universe
Beyond the Milky Way: A Giant Leap into an Expanding Universe
The Great Leap Backwards: Theories on Where It All Came From
An Elementary Story: How the Stars Gave Life to the Universe
All the Way Back: It Started with a Bang
What Does It Matter: Why There is More Matter Than Antimatter in the Universe
Before the Big Bang: How the Entire Universe Began
Dancing in the Dark: Dark Matter and the Great Cosmic Web
The Ultimate End: Dark Energy and the Fate of the Universe
Past, Present and Future: All We Know About All There Is

Readership: General public interested in astronomy, astrophysics and/or cosmology.
Key Features: Author of well-known physics blog "Starts with a bang"
Keywords: Astronomy; Physics; Astrophysics; Cosmology; Space

"Beyond the Galaxy offers a fun, informative excursion through the universe and the complex history of our attempts to grapple with its size, age and content. Ethan Siegel writes clearly and confidently, drawing upon wonderful analogies and fascinating tidbits of astronomical history, including outstanding accounts of the heated debates of the past about the nature of the cosmos. The book is richly illustrated, nicely supplementing Siegel's lucid prose. A must read for anyone curious about the development of cosmology and where it stands today!" Paul Halpern Author of *Einstein's Dice and Schrödinger's Cat*

"Ethan Siegel takes us on an engaging journey from the smallest to the largest scales of space and time. He illuminates the path with abundant useful figures, and clearly explains the varied topics he tackles. His descriptions for how the Universe expands, depending upon what it is made of, are particularly nice. His prose exudes enthusiasm and passion — not just for the things we have learned, but for the scientific process. A great read for the science enthusiast." Robert Garisto Editor *Physical Review Letters*

"Ethan Siegel has achieved the rare feat of writing a textbook that reads like an engrossing page-turner. This is a book that belongs on the reading list of every undergraduate introduction to astrophysics and cosmology." Dr Roberto Trotta Senior Lecturer in Astrophysics at Imperial College London and author of *The Edge of the Sky: All you need to know about the All-There-Is*

"With eloquence and clarity, Siegel tells us the story of the universe, from the (inferred) cosmic inflation and the Big Bang at the very beginning to the (predicted) Big Freeze at the very end. *Beyond the Galaxy* is one of those rare books that not only communicates scientific ideas, but communicates what science itself is all about." *The Physics Mill*

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