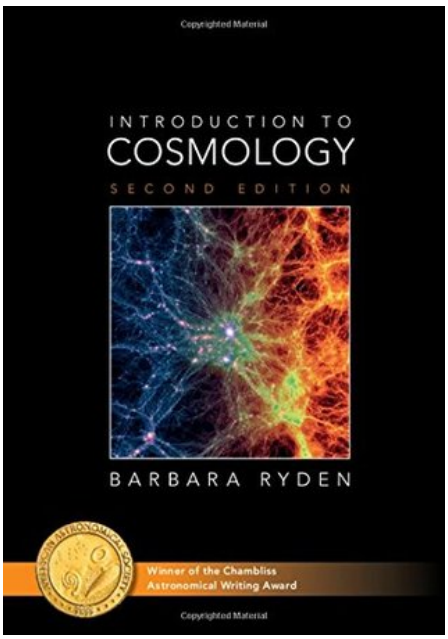

Introduction to Cosmology

Barbara Ryden

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This second edition of Introduction to Cosmology is an exciting update of an award-winning textbook. It is aimed primarily at advanced undergraduate students in physics and astronomy, but is also useful as a supplementary text at higher levels. It explains modern cosmological concepts, such as dark energy, in the context of the Big Bang theory. Its clear, lucid writing style, with a wealth of useful everyday analogies, makes it exceptionally engaging. Emphasis is placed on the links between theoretical concepts of cosmology and the observable properties of the universe, building deeper physical insights in the reader. The second edition includes recent observational results, fuller descriptions of special and general relativity, expanded discussions of dark energy, and a new chapter on baryonic matter that makes up stars and galaxies. It is an ideal textbook for the era of precision cosmology in the accelerating universe.

Introduction to Cosmology Details

Date	:	Published November 24th 2016 by Cambridge University Press (first published October 8th 2002)
ISBN	:	9781107154834
Author	:	Barbara Ryden
Format	:	Hardcover 276 pages
Genre	:	Science, Physics, Textbooks, Astronomy, Mathematics

From Reader Review Introduction to Cosmology for online ebook

Folkert Wierda says

Ryden gives a very good overview of cosmology (status: 2002) with a good combination of text and math. Good to follow for someone who has no phobia for formulas and who is willing to slow down at the quantitative sections to understand how the steps are derived. Best are her explanations of abstract notions, some of which now make much more sense to me than after reading other texts.

Jack says

Interesting presentation.

I think I needed a couple of prerequisites before I jumped into this. Also, I read it on an iPad using the kindle app and the equations were way too tiny to read. This is. Recurring problem on tech books on kindle devices and on the kindle app for iOS devices. It’s not too bad on a pc, but it’s terrible on portable devices

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Peter Mcloughlin says

This is a physics textbook geared towards upper-level undergraduates of physics. It is full of integral and differential equations and physics formulas. That is to say, it is about as heavy going as an undergraduate physics textbook. Not exactly pleasure reading. I looked through it and recognized a lot of familiar ideas in my hour or so run through of it but this would really deserve a thorough treatment of physics study (as it also includes exercises as any physics textbook would) frankly it was a bit more work than I am willing to put in right now as I am no longer in school.

Alex says

Textbook.

Skymeson Rolnick says

I love cosmology and this one in particular is easy to follow.

Mohamed IBrahim says

This was one of the two textbook which I have during my cosmology course in the university. The book lacks a lot of illustration in some points like , Neutrino decoupling and CMB fluctuations and also it depends from the early beginning in specific Cosmological model for density contribution (Benchmark model) which leads me to confuse the result the book got with the result I drive for more easier or illustrative model (Single component universe mainly.

But in general the book is very good as an introduction but needs a lot of consulting for the suggested reading after each chapter provide and also need the consult a professor so i don't think it is suitable for self study.

Brandon says

very very good book!

Fathiyul Fahmi says

memberi wawasan kosmologi meskipun matematiknya kurang detail

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Duncan McKinnon says

This book does a good job building on topics through the chapters to develop in the student both a conceptual and operational understanding of modern cosmology.

Winston O'Toole says

Thus far my favourite textbook. Ryden lays down the math and facts, but keeps it colloquial enough to let the physical representation of the mathematics really sink in.
