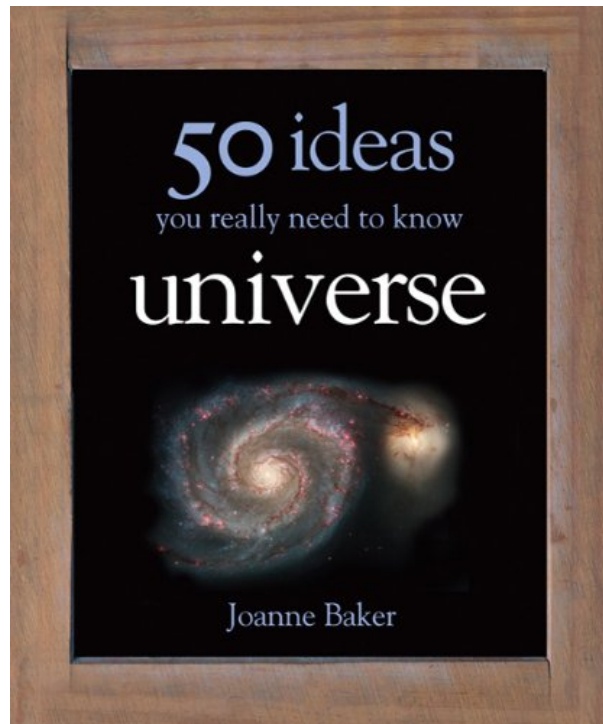
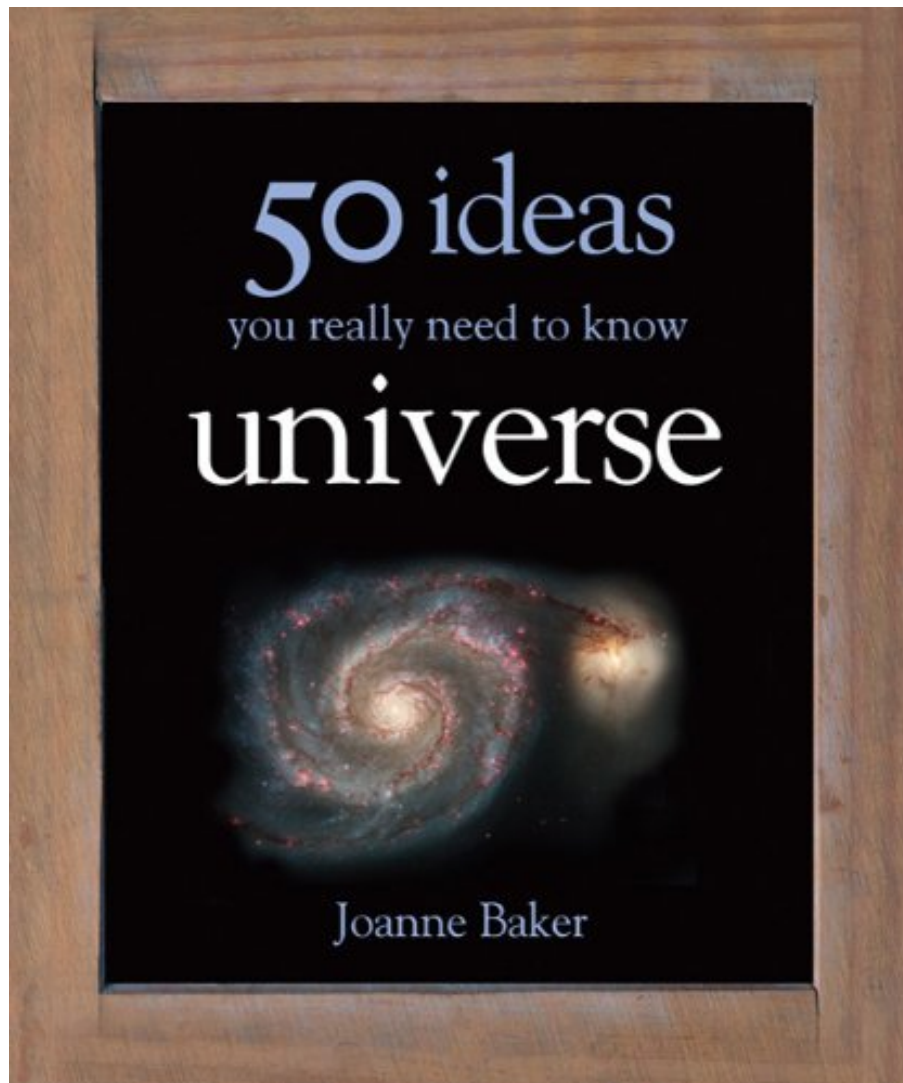


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About the Author

Joanne Baker is the author of Quercus' best selling science title *50 Physics Ideas You Really Need to Know*. She studied Physics at the University of Cambridge, UK, and took her PhD in Astrophysics at the University of Sydney in 1995. She is Books & Arts editor at Nature magazine.

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- Stars: types
- Newton's laws of motion
- Black holes
- Stars: births of stars
- Gravitation
- String theory
- Stars: deaths of stars
- Spectrum
- Astroparticle physics
- Stars: life cycles
- Milky Way
- Cosmic rays
- The sun: fusion and sunspots
- Doppler shift and redshift
- Higgs boson Pulsars
- Shapley-Curtis debate
- Anthropic principle
- Cepheids and variable stars
- Olbers paradox
- Hubble
- sequence of galaxy types

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A guide to basic concepts in Astrophysics

By Shalom Freedman

This book aims to provide the general reader with an understanding of basic concepts of astrophysics. Each chapter contains a short summary statement about the main idea. It then goes on to expost this idea at length. It also a relevant quotation in regard to the subject, one which is often entertaining and amusing. It seems to me that it exposts the concepts in a clear and concise way. I cannot however judge this fairly as I am far being an expert on the subject. For me the book was helpful in 'filling out my own personal picture' of the universe, a picture which is based very much on the questions I wish personally to ask. For instance at one point the author talks about the conditions on Earth at first formation the two- hundred million year Hadean period when the 'seas were boiling hot'. I am sure students of Astrophysics learn about this period and understand it in a much deeper way than I . For me it was important in giving material for the understanding and imagination.

I rarely comment on this aspect of a book, but I strongly disliked the format of the book, the hard- solid

square heavy 'look'. I would have appreciated a light and easy- to- carry paperback. I will close with a list of topics treated in the book , a list which will probably whet the reader's interest much more than anything I have said in this review.

Among the topics treated in the book are the following:

Planets and solar system
Cosmic microwave background
Supermassive black holes
Heliocentrism
Big bang nucleosynthesis
Galaxy formation and evolution
Kepler's laws
General relativity
Gravitational lensing
Galileo
Special relativity
Stars: types
Newton's laws of motion
Black holes
Stars: births of stars
Gravitation
String theory
Stars: deaths of stars
Spectrum
Astroparticle physics
Stars: life cycles
Milky Way
Cosmic rays
The sun: fusion and sunspots
Doppler shift and redshift
Higgs boson Pulsars
Shapley-Curtis debate
Anthropic principle
Cepheids and variable stars
Olbers paradox
Hubble
sequence of galaxy types
Gamma ray bursts
Hubble's law
Dark matter
Exoplanets
Cosmic distance ladder
Large scale structure
Theories of creation
Big bang
Galaxy clusters and voids
Earth-moon giant impact theory
Cosmic inflation
X-ray background
Astrobiology

Dark energy
Radio galaxies
Fermi paradox
Matter and antimatter
Quasars and active galactic nuclei

3 of 3 people found the following review helpful.

For the price and quality this publication would make a great gift for the aspiring student or the interested adult

By Paul F. Brooks

50 Ideas you really need to know Universe by Joanne Baker

I have always had a deep interest in astronomy and own many books on related topics within this science. Nonetheless I am a rank amateur and am always on the look out for a helpful book to update and refresh my knowledge of this fascinating but confusing topic. I have found one that I can recommend without reservation to adults and curious teens who require a brief, concise and easy to understand guide.

The author and publisher refrained from stuffing the book with generic photographs of astronomical topics. Not that I don't admire a Hubble color image or a striking Martian landscape but the intent of this book is to enlighten not dazzle. What we have are 50 astronomical topics discussed in 4 pages each with, simple charts, timelines and many quirky but pertinent quotes from notables. The author covers a wide range of topics from the routine: Sun, Moon, Planets, to the "far out": Fermi paradox, Hubble's law, God particle. I don't believe the author "dumbed down" the text for us laypeople but detailed math concepts are, for the most part avoided.

For the price and quality this publication would make a great gift for the aspiring student or the interested adult.

1 of 1 people found the following review helpful.

Excellent for the Beginner, Hobbyist, or Enthusiast of Cosmology; Not meant for the Expert

By Demac

Despite being only a hobbyist or layperson concerning this topic, I have taken time to read works like Six Easy Pieces, The Cosmic Code, The Inflationary Universe, Death by Blackhole and a translation of Einstein's Relativity papers.

I do not claim to understand everything about those works. I am not an expert or professional in this area at all. I simply mention that I've read these works for context as I now present the following book review.

And to that point: I really enjoyed "50 Ideas You Really Need to Know: Universe" because Joanne Baker gives an excellent overview of many important topics concerning our understanding of the universe. This book has made it easier to soak in other works that are more comprehensive (like the ones just listed above). It's a good book for the average person with a growing interest in cosmology. I wish I had this book years ago-- before I ever attempted to read the a fore mentioned titles.

The ideas in this book are presented succinctly and are also accompanied with brief quotes from important people both famous and obscure. Background information of key people and subtopics are also touched on as side notes for both brevity and enrichment. Each topic also ends with a short phrase to help the reader remember the gist of each idea presented.

The ideas build on each other in a loose chronological fashion and really show how one great discovery

paves the way for the next. This continuity of ideas informs us that understanding simply for the sake of it is virtuous and essential; we should never underestimate this fact.

I also noticed this book seemed quite current (at the time I'm writing this review), as the edition I have was published in 2013.

I also love this title because revisiting sections from more in depth cosmology books (like the examples above) became far more fruitful after reading "50 Ideas".

This book has even enriched my understanding of cosmology topics that I thought I already knew a lot about. If this book is a good representation of the rest of the "50 Ideas" series, then I really need to get my hands on some of the other titles.

If you're wanting to get more acquainted with cosmology, I believe this book is a great place to start. I also believe that the fifty ideas presented in this book really do need to be known by as many people as possible. I believe if everyone were exposed to these ideas, our world might become a better place. People would realize how expansive our universe truly is and how we are totally engulfed by it. Our galaxy is but a grain of salt and we are so small. But to me, that's all the more reason to take better care in how we live out our lives.

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