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The 4 Percent Universe Dark
Dark energy added to dark matter reduces the familiar universe to 4 percent of the total. Panek delivers vivid sketches of scientists, lucid explanations of their work and revealing descriptions of the often stormy rivalry that led to this scientific revolution, usually a media cliché, but not in this case.* —Kirkus Reviews, STARRED review

The 4 Percent Universe: Dark Matter, Dark Energy, and the ...
In recent years, a handful of scientists have been racing to explain a disturbing aspect of our universe: only 4 percent of it consists of the matter that makes up you, me, our books, and every star and planet. The rest is completely unknown. Richard Panek tells the dramatic story of how scientists reached this cosmos-shattering conclusion.

The 4-Percent Universe: Dark Matter, Dark Energy, and the ...
Dark energy, however, is a substance or force responsible for the accelerating expansion of the universe over time. The significant focus of The 4 Percent Universe is on the developments of astronomical science in the 20th century, including the formation of the expanding universe theory by Edwin Hubble in the 1930s.

The 4 Percent Universe - Wikipedia
It was 13.75 billion years old.... It was flat, consisting of 72.8 percent dark energy, 22.7 percent dark mater, and 4.56 percent baryonic matter (the stuff of us) - an exquisitely precise accounting of the depth of our ignorance.

Amazon.com: The 4 Percent Universe: Dark Matter, Dark ...
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The 4 Percent Universe: Dark Matter, Dark Energy, and the ...
Flabbergasted astronomers understood that accelerating billions of galaxies requires immense energy. Since Einstein proved that energy and mass are equivalent, this "dark energy" makes up three-quarters of the universe. Dark energy added to dark matter reduces the familiar universe to 4 percent of the total.

The 4 Percent Universe: Dark Matter, Dark Energy, and the ...
This is an interesting look at modern cosmology, and the perplexing fact that scientists can only account for about 4% of the universe's matter. Another 21% or so is "dark matter", so far rather poorly understood, and fully 75% is "dark energy", that strange characteristic of the universe that is causing it to expand at an accelerating rate.

The 4% Universe: Dark Matter, Dark Energy, and the Race to ...
As Richard Panek explains in his lively new account of 20th-century (plus a little 21st-century) cosmology, "The 4 Percent Universe: Dark Matter, Dark Energy and the Race to Discover the Rest of...

"The 4 Percent Universe": Dark matter and dueling ...
NEW YORK — All the stars, planets and galaxies that can be seen today make up just 4 percent of the universe. The other 96 percent is made of stuff astronomers can't see, detect or even comprehend....

What's 96 Percent of the Universe Made Of? Astronomers Don ...
Dark energy added to dark matter reduces the familiar universe to 4 percent of the total. Panek delivers vivid sketches of scientists, lucid explanations of their work and revealing descriptions of the often stormy rivalry that led to this scientific revolution, usually a media cliché, but not in this case. Pub Date: Jan. 10, 2011

THE 4 PERCENT UNIVERSE | Kirkus Reviews
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Amazon.com: Customer reviews: The 4-Percent Universe: Dark ...
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The 4 percent universe [electronic resource] : dark matter ...
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The 4 Percent Universe: Dark Matter, Dark Energy, and the ...
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