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Dark energy added to dark matter reduces
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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

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The 4 Percent Universe: Dark Matter, Dark Energy, and the ...

The 'four percent' in the title of this book refers to the apparently true but bizarre fact that only 4% of the universe seems to be ordinary stuff – from planets to stars – with twenty-odd percent of the remainder dark matter and the rest dark energy, the

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unknown phenomenon that is forcing the expansion of the universe to accelerate.

The 4-Percent Universe: Dark Matter, Dark Energy, and the...

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The 4 Percent Universe: Dark Matter, Dark Energy, and the ...

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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.

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*The 4 Percent Universe: Dark Matter,
Dark Energy, and the ...*

IN *The 4% Universe: Dark Matter, Dark
Energy, and the Race to Discover the Rest
of Reality* Richard Panek tells the dramatic
story of how scientists reached this
cosmos-shattering conclusion. In vivid

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detail, he narrates the quest to find the "dark" matter and an even more bizarre substance called dark energy that make up 96 percent of the universe.

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The 4 Percent Universe: Dark Matter, Dark Energy, and the ...

Washington Post In recent years, a handful

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The 4 Percent Universe: Dark Matter,...
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stormy rivalry that led to this scientific
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*The 4% Universe : Dark Matter, Dark
Energy, and the Race ...*

This is an interesting look at modern
cosmology, and the perplexing fact that

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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.

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The 4% Universe: Dark Matter, Dark Energy, and the Race to ...

Dark energy, however, is a substance or force responsible for the accelerating expansion of the universe over time. [1]

The significant focus of *The 4 Percent Universe* is on the developments of astronomical science in the 20th century,

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including the formation of the expanding universe theory by Edwin Hubble in the 1930s.

The 4 Percent Universe - Wikipedia

NEW YORK — All the stars, planets and galaxies that can be seen today make up just 4 percent of the universe. The other 96

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percent is made of stuff astronomers can't see, detect or even comprehend....

What's 96 Percent of the Universe Made Of? Astronomers Don't Know

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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..."

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exhilarating and behind-the-scenes detail, Panek takes his readers on a tour of the bitter rivalries and fruitful collaborations, the eureka moments and blind alleys, that have fueled the search, redefined science, and reinvented the universe. Science journalist Panek (The Invisible Century) offers an insider's view of the quest for

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