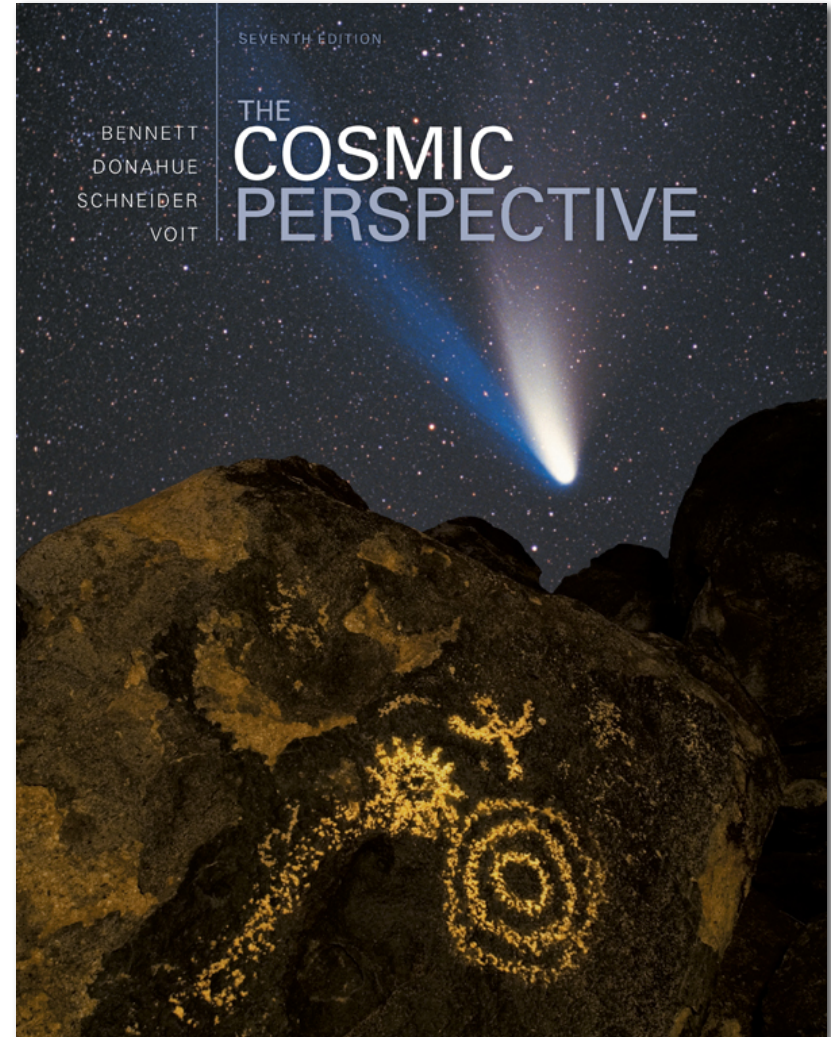


The Cosmic Perspective

Seventh Edition

Celestial Timekeeping and Navigation



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- b) 24 hours
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Why do we call a day 24 hours, if Earth *rotates* once in 23 hours, 56 min?

- a) For simplicity – it is about 24 hours.
- b) We measure a day by the position of the Sun, so Earth's *revolution* around the Sun affects the length of day.
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The constellation Orion rises in the early evening December 1. When will it rise on January 1?

- a) about the same time
- b) depends on where you are in the US
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The constellation Orion rises in the early evening December 1. When will it rise in August?

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- b) depends on where you are in the US
- c) in the early morning, before dawn
- d) it won't rise in August
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The time of *apparent noon* varies with longitude. For convenience, we pretend that it doesn't for nearby places by using

- a) the equation of time.
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Chapter S1

The English poet Kipling, while in the tropics, wrote, "The sun comes up like thunder over China cross the bay." What astronomical truth inspired this?

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- b) Sunrise is louder in the tropics.
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Suppose that you live at latitude 40 degrees north in the US. How high does the Sun get at noon on June 21?

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- b) 50 degrees above the southern horizon
- c) 73 degrees above the southern horizon
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- d) goes up and down over the course of each day.
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