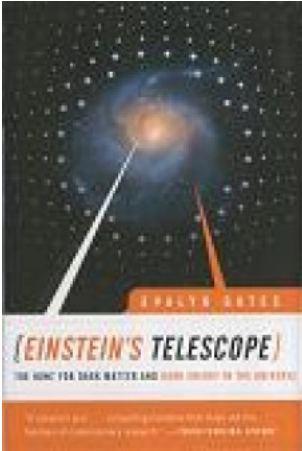


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There is far more to the universe than meets the eye: invisible dark matter and dark energy constitute the vast bulk of the cosmos and are responsible for its accelerating expansion. Gates, assistant director of the Kavli Institute for Cosmological Physics, explores the science of these invisible phenomena and the questions they raise about the universe's origins, its present and its future. Gates explains how scientists discovered the existence of dark matter and their theories about the nature of the particles (with names like WIMPs) that form it. Astrophysicists have found tools to measure the invisible mass: the stars themselves. Drawing on Einstein's theory of general relativity, scientists can see dark matter using gravitational lensing_by measuring the deflection of light around a cosmic object, they can measure the object's mass.