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2006 from the American Astronomical Society, and is now in its second edition, and she co-authored Foundations of Astrophysics with Prof. Bradley Peterson, a beginning-level text in astrophysics for astronomy majors.

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B.S., Physics, Northwestern University, 1983  
A member of the faculty since 1992, Prof. Ryden studies the formation, alignment, and shapes of galaxies, and the large-scale structure of the universe, and cosmology,



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matter is discussed on galaxy and cluster scales, and dark matter candidates are presented, some requiring a five-dimensional universe and several representing various types of exotica. In the context of cosmic structures the cold dark matter paradigm is described. Dark energy models include the cosmological constant, quintessence and other single field models,  $f(R)$  models and models requiring extra dimensions.

This extensively illustrated book presents the astrophysics of galaxies since their beginnings in the early Universe. It has been



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