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She is internationally known for her textbook Introduction to Cosmology, which won the first Chambliss Astronomical Writing Award in 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, including tests for dark energy, dark matter, and the properties of the primordial density fluctuations.

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Problem Sets 7 and 8; Steven Weinberg, The First Three Minutes, Chapter 8 and the Afterword; Barbara Ryden, Introduction to Cosmology, Chapters 8 (The Cosmic Microwave Background) and 10 (Inflation and the Very Early Universe) [First Edition: Chapters 9 and 11]; Alan Guth, Inflation and the New Era of High-Precision Cosmology,

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