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Barbara Sue Ryden Cosmos Mariner: Destination Unknown. I received a BA ('83) from Northwestern University, where I was a student in the Integrated Science Program. My PhD ('87) is from the department of astrophysical sciences at Princeton University. I served terms as a postdoc at the CfA and CITA.

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Introduction to Cosmology Barbara Ryden Department of Astronomy The Ohio State University

January 13, 2006

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Both Barbara Ryden and Brad Peterson are respected teachers and researchers at Ohio State University. Peterson serves as Department Chair. Peterson serves as Department Chair. Ryden wrote the Chambliss Astronomical Writing Award winner, Introduction to Cosmology, a text for majors published by Addison-Wesley.

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This work provides a contemporary and complete introduction to astrophysics for astronomy and physics majors. With a logical presentation and conceptual and quantitative end-of-chapter problems, the material is easy to understand and ideal for astrophysics students.

Recent discoveries in astronomy have revolutionized the field of cosmology. While many long-standing questions in cosmology have now been answered, the new data pose new mysteries such as the nature of the "dark energy" that dominates the universe. This second edition provides an accessible and thorough text on the physics of cosmology and a lively account of the modern concordance model of the universe, from the big bang to a distant future dominated by dark energy.

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astrophysics and includes a set of problems and solutions, it will not only benefit undergraduate students and lecturers; thanks to the comprehensive coverage of the field, even graduate students and researchers specializing in related fields will appreciate it as a valuable reference work.

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Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level, this textbook also provides an overview of astrophysics for astrophysics graduate students, before they delve into more specialized volumes. Assuming background knowledge at the level of a physics

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major, the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics. Physical concepts, mathematical derivations and observational data are combined in a balanced way to provide a unified treatment. Topics such as general relativity and plasma physics, which are not usually covered in physics courses but used extensively in astrophysics, are developed from first principles. While the emphasis is on developing the fundamentals thoroughly, recent important discoveries are highlighted at every stage.

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