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Foundations of Astrophysics, written with Brad Peterson, was published in 2009. I am currently at work on the Ohio State Graduate Astrophysics Series , a set of ebooks based on the graduate curriculum of the Ohio State University astronomy department.

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Foundations of Astrophysics is packed full of information that should be mastered by any aspiring astrophysicist. Kepler's laws, properties of stars, the role and limitations of telescopes in astronomy, and other relevant topic areas are covered in detail sufficient for a one semester upper level, or a two semester 200 level undergraduate course.

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Foundations of Astrophysics, written with Brad Peterson, was published in I am currently at work on the Ohio State Graduate Astrophysics. Buy Foundations of Astrophysics: United States Edition 1 by Barbara Ryden, Bradley M. Peterson (ISBN:) from Amazon ' s Book Store.

Foundations of Astrophysics 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 accessible to introductory astrophysics students taking a two-semester survey course. Starting with the motions of the solar system and a discussion of the interaction of matter and light, the authors explore the physical nature of objects in the solar system, and the exciting new field of exoplanets. The second half of their text covers stellar, galactic, and extragalactic astronomy, followed by a brief discussion of cosmology. This is a reissue of the original 2010 edition, which has established itself as one of the market-leading astrophysics texts, well known for its clarity and simplicity. It has introduced thousands of physical science students to the breadth of astronomy, and helped prepare them for more advanced studies.

A contemporary and complete introduction to astrophysics for astronomy and physics majors taking a two-semester survey course.

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.

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Optional and advanced sections are included which may be skipped without interfering with the flow of the core content. This book is designed to cover the most important aspects of stellar astrophysics inside a one semester (or half-year) course and as such is relevant for advanced undergraduate students following a first course on stellar astrophysics, in physics or astronomy programs. It will also serve as a basic reference for a full-year course as well as for researchers working in related fields.

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