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teaching astronomy in a
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plans, teacher notes, lab
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Animals

Lectures On Computation

Interactive Textbook

Detection, Formation, Properties, Habitability

Introduction to

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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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undergraduate textbook, combining both the theory behind astronomy with the very latest developments.

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For centuries, our ancestors carefully observed the movements of the heavens and wove that astronomical knowledge into their city planning, architecture, mythology, paintings, sculpture, and poetry. This book uncovers the hidden messages and advanced science encoded within these sacred spaces, showing how the rhythmic motions of the night sky played a central role across many different cultures. Our astronomical tour

transports readers through time and space, from prehistoric megaliths to Renaissance paintings, Greco-Roman temples to Inca architecture. Along the way, you will investigate unexpected findings at Lascaux, Delphi, Petra, Angkor Wat, Borobudur, and many more archaeological sites both famous and little known. Through these vivid examples, you will come to appreciate the masterful ways that astronomical knowledge was incorporated into each society's religion and

mythology, then translated into their physical surroundings. The latest archaeoastronomical studies and discoveries are recounted through a poetic and nontechnical narrative, revealing how many longstanding beliefs about our ancestors are being overturned. Through this celestial journey, readers of all backgrounds will learn the basics about this exciting field and share in the wonders of cultural astronomy.

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Contains information on earth, moon, sun, solar system, stars, galaxies, and the universe. Also includes inquiry activities

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- 3. Fishes, Amphibians, and
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