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4.0 out of 5 stars Introduction to Stellar Astrophysics Vol 2 Reviewed in the United States on April 2, 2008 This is an excellent series Vol 1 thur 3 for the person wishing to review the basics of stellar astrophysics.

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acterizes the observed spectrum. Such model atmosphere interpretation of stellar spectra forms the basis for inferring basic stellar properties like mass, radius and luminosity. But once given these stellar properties, a central goal is to understand how they inter-relate with each other, and how they develop and evolve in time. The rst represents the

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and is completely self-contained. There is an emphasis on the basic physics governing stellar structure and the basic ideas on which our understanding of stellar structure is based. The book also provides a comprehensive discussion of stellar evolution.

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2 stellar astrophysics 1.1 Fluid equation of motion We can describe a star by deriving differential equations for the density, pressure, temperature, luminosity and composition. Over scales that are large compared to the collisional mean free paths between particles, we can treat the fluid as a continuous medium. That is, we

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But how many of us truly understand how stars shine, where Saturn's rings come from, or why galaxies have their distinctive shapes? Observational astronomy excels at imaging and cataloging celestial objects, but it takes a more rigorous discipline to come up with physical explanations for them. That field is astrophysics.

~~Introduction to Astrophysics—English~~

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introduction to stellar observations focuses on how stellar motions, distances, luminosities, colors, radii, masses and temperatures are measured or derived and how these statistics can be used to classify stars through their spectra.

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Once you have covered basic physics, you may start with this book. It is very important for professional astrophysics. The book begins with the physics required to study stellar astrophysics. If you ever become a researcher in stellar evolution, then this is one of the best books on astrophysics and is highly recommended.

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