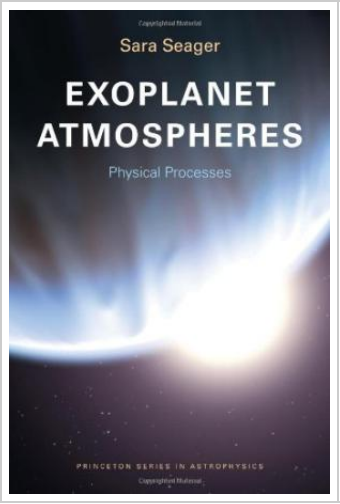

Exoplanet Atmospheres: Physical Processes (Paperback)

By Sara Seager

Princeton University Press, United States, 2010. Paperback. Condition: New. Language: English . Brand New Book. Over the past twenty years, astronomers have identified hundreds of extrasolar planets--planets orbiting stars other than the sun. Recent research in this burgeoning field has made it possible to observe and measure the atmospheres of these exoplanets. This is the first textbook to describe the basic physical processes--including radiative transfer, molecular absorption, and chemical processes--common to all planetary atmospheres, as well as the transit, eclipse, and thermal phase variation observations that are unique to exoplanets. In each chapter, Sara Seager offers a conceptual introduction, examples that combine the relevant physics equations with real data, and exercises. Topics range from foundational knowledge, such as the origin of atmospheric composition and planetary spectra, to more advanced concepts, such as solutions to the radiative transfer equation, polarization, and molecular and condensate opacities. Since planets vary widely in their atmospheric properties, Seager emphasizes the major physical processes that govern all planetary atmospheres. Moving from first principles to cutting-edge research, Exoplanet Atmospheres is an ideal resource for students and researchers in astronomy and earth sciences, one that will help prepare them for the next generation of planetary science. * The...

Reviews

An exceptional pdf as well as the font employed was intriguing to read through. This is certainly for all who statte there was not a worthy of reading through. I am just delighted to inform you that here is the very best publication i actually have go through inside my very own existence and might be he finest pdf for actually.

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