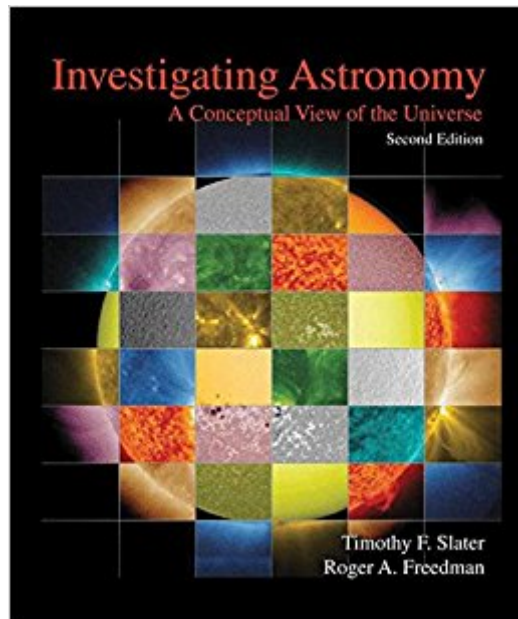




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Investigating Astronomy



Synopsis

Sparked by the latest developments in astronomy education research, *Investigating Astronomy* focuses on conceptual understanding, visual literacy, and inquiry-based learning. Tim Slater and Roger Freedman's concise (15 chapter) text explores core topics to show how astronomers study and decipher the universe's underlying processes, helping students approach the subject from a professional scientist's perspective.

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Timothy F. Slater holds the University of Wyoming Excellence in Higher Education Endowed Chair for Science Education where he holds faculty appointments in the College of Education, the College of Science, and the School of Energy Resources. Internationally known for his work in the teaching and learning of astronomy, he serves as the Director of the Cognition in Astronomy & Physics Education Research CAPER Team where his research focuses on uncovering learners' conceptual models when engaging in science. Prior to becoming a chaired professor at the University of Wyoming, Dr. Slater was a tenured professor in the Astronomy Department at the University of Arizona where he constructed the first Ph.D. program focusing on astronomy education research. Winner of numerous teaching awards, Dr. Slater has been elected to the Council and Board of Directors for the American Astronomical Society, the Astronomical Society of the Pacific, the Society of College Science Teachers, the National Science Teachers Association, and serves on the

Editorial Board of the Astronomy Education Review. Dr. Slater and his wife spend much of the summer traveling cross country on their motorcycle, hiking in the mountains with their children, and continuing their quest for the perfect location to watch sunsets. Roger A. Freedman is a Lecturer in Physics at the University of California, Santa Barbara. Dr. Freedman was an undergraduate at the University of California campuses in San Diego and Los Angeles, and did his doctoral research in theoretical nuclear physics at Stanford University under the direction of Professor J. Dirk Walecka. He came to UCSB in 1981 after three years teaching and doing research at the University of Washington. At UCSB, Dr. Freedman has taught in both the Department of Physics and the College of Creative Studies, a branch of the university intended for highly gifted and motivated undergraduates. He has published research in nuclear physics, elementary particle physics, and laser physics. In recent years, he has helped to develop computer-based tools for learning introductory physics and astronomy and helped pioneer the use of classroom response systems and the "flipped" classroom model at UCSB. He is co-author of three introductory textbooks: University Physics (Pearson), Universe (Freeman), and Investigating Astronomy (Freeman). Dr. Freedman holds a commercial pilot's license. He was one of the early organizers of the San Diego Comic-Con, now the world's largest popular culture convention. His likeness has appeared as a supervillain and mad scientist in both DC and Marvel Comics."

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