

Theoretical Astrophysics: Volume 3, Galaxies and Cosmology

By T. Padmanabhan



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This timely volume provides comprehensive coverage of all aspects of cosmology and extragalactic astronomy at an advanced level. Beginning with an overview of the key observational results and necessary terminology, it covers important topics: the theory of galactic structure and galactic dynamics, structure formation, cosmic microwave background radiation, formation of luminous galaxies in the universe, intergalactic medium and active galactic nuclei. This self-contained text has a modular structure, and contains over one hundred worked exercises. It can be used alone, or in conjunction with the previous two accompanying volumes (Volume I: Astrophysical Processes, and Volume II: Stars and Stellar Systems).



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Review

"...the author has done an admirable job of summarizing the current state of this subject....the book is well written....if graduate level theoretical astrophysics is your cup of tea, then this book is sure to please."

Stardust

About the Author

T. Padmanabhan is a Distinguished Professor and Dean of Core Academic Programmes at the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune. He is a renowned theoretical physicist and cosmologist with nearly 30 years of research and teaching experience both in India and abroad. Professor Padmanabhan has published over 200 research papers and nine books, including six graduate-level textbooks. These include the Structure Formation in the Universe and Theoretical Astrophysics, a comprehensive 3-volume course. His research work has won prizes from the Gravity Research Foundation (USA) five times, including the First Prize in 2008. In 2007 he received the Padma Shri, the medal of honour from the President of India, in recognition of his achievements.

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