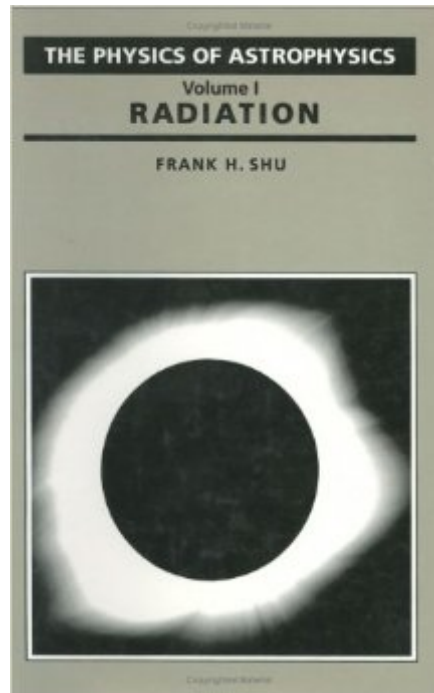


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The Physics Of Astrophysics Volume I: Radiation



Synopsis

This two-volume text is for new graduates on astronomy courses who need to get to grips with the physics involved in the subject. Four problem sets, averaging three problems per set, accompany each volume. The problems expand on the material covered in the texts and represent the level of calculational skill needed to write scientific papers in contemporary astrophysics. Volume I.

"Radiation" deals with the emission, absorption, and scattering of radiation by matter, radiative transfer, statistical physics, classical electrodynamics, and atomic and molecular structure. Volume II. "Gas Dynamics", is a self-contained textbook. It can be used as the text for a one semester course on the interactions of matter and radiation and electromagnetic fields of macroscopic scale in both the strongly collisional and collisionless regimes. It covers single-fluid shocks, and fronts; magnetohydrodynamics and plasma physics, their applications to self-gravitating spherical masses, accretion disks, spiral density waves, star formation, and dynamo theory. Over 200 photos, line drawings, and tables amplify the major points of the text.

Book Information

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Customer Reviews

When I had this book for a class in graduate school, I found that it never really helped me with any of the problems, and in general did not describe the topics well at all. I would recommend sticking to Rybicki and Lightman for a much better exposition.

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