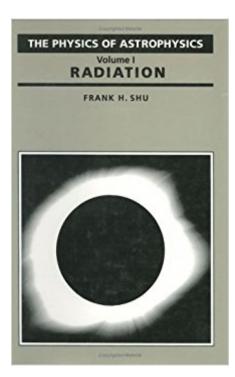


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# The Physics Of Astrophysics Volume I: Radiation





### 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 collisionil and collisionless regimes. It covers single-fluid shocks, and fronts; mapetohydrodynamics and plasma physics, their applications to self-graviting 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**

Hardcover: 429 pages Publisher: University Science Books (June 1, 1991) Language: English ISBN-10: 0935702644 ISBN-13: 978-0935702644 Product Dimensions: 9.6 x 6.3 x 1 inches Shipping Weight: 1.6 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #922,698 in Books (See Top 100 in Books) #27 inÅ Å Books > Engineering & Transportation > Engineering > Aerospace > Gas Dynamics #974 inÅ Å Books > Textbooks > Science & Mathematics > Astronomy & Astrophysics #1249 inÅ Å Books > Science & Math > Astronomy & Space Science > Astrophysics & Space Science

#### **Customer Reviews**

Students who opt to follow this pair of excellent texts are going to equip themselves with a strong background in the physics of astrophysics, and receive a compelling invitation to use this new-found knowledge to explore the many exciting areas of modern astronomy. --Nature --This text refers to the Paperback edition.

Frank Shu is a Professor of Astronomy at the University of California, Berkeley. He received his PhD from Harvard University in 1968. Shu has written a number of expository articles for the lay public, and is the author of a best-selling introductory textbook in astronomy and astrophysics, The Physical Universe. He is a member of the U.S. National Academy of Sciences and Academia Sinica.

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