



High Energy Astrophysics: Volume 1, Particles, Photons and their Detection

By Malcolm S. Longair

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High energy astrophysics is one of the most exciting areas of contemporary astronomy, covering the most energetic phenomena in the universe. The highly acclaimed first edition of Professor Longair's book immediately established itself as an essential textbook on high energy astrophysics. In this complete revision, the subject matter has expanded to the point where two volumes are desirable. In the first, a thorough treatment is given of the physical processes that govern the behavior of particles in astrophysical environments such as interstellar gas, neutron stars, and black holes. Special emphasis is placed on how observations are made in high energy astrophysics and the limitations imposed on them. The tools of the astronomer and high energy astrophysicist are introduced in the context of specific astronomical problems. The material in Volume 1 leads to a study of all kinds of high energy phenomena in the galaxy and universe given in the second volume. This book assumes that readers have some knowledge of physics and mathematics at the undergraduate level, but no prior knowledge of astronomy is required. The pair of books covers all aspects of modern high energy astrophysics to the point where current research can be understood.

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- Rank: #1710598 in Books
- Brand: Brand: Cambridge University Press
- Published on: 1992-03-27
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .91" w x 7.01" l, 2.03 pounds
- Binding: Paperback
- 440 pages

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Editorial Review

Review

"...a remarkably entertaining and full treatment of a very challenging subject....The breadth of topics is amazing, covering mathematical derivations of the basic and complex interaction laws, advances in instruments and techniques, and wonderful surveys of the delightful history of each discipline covered. The reader should have at least two years of college-level math and physics to get the full benefit of the contents, but anyone with a deep curiosity about our universe would be able to browse through the book and find many extremely fascinating items to ponder and be amazed by." Steven Kilston, Science Books & Films

"...recommended for all readers who are interested in topics and results of contemporary high energy astrophysics and have some knowledge of physics and mathematics at the undergraduate level. Everyone, who will start to work in the field between theory and experiment, who will deal with the preparation, realization and interpretation of high energy experiments, cannot find a better introduction in this subject." Ulrich R.M.E. Geppert, Astrophysics and Space Science

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