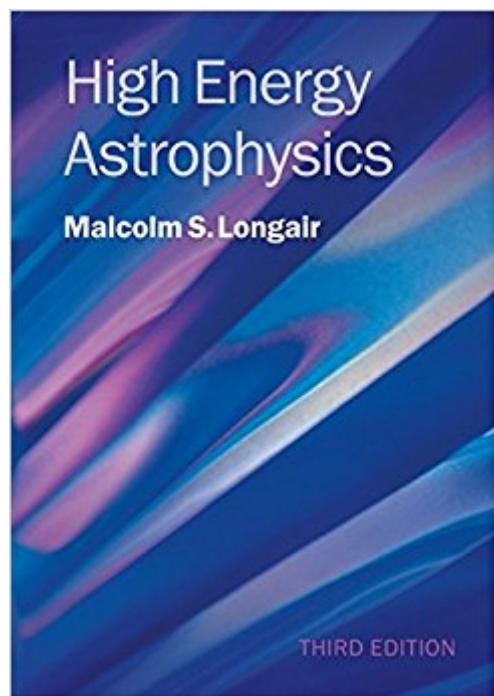


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# High Energy Astrophysics



## Synopsis

Providing students with an in-depth account of the astrophysics of high energy phenomena in the Universe, the third edition of this well-established textbook is ideal for advanced undergraduate and beginning graduate courses in high energy astrophysics. Building on the concepts and techniques taught in standard undergraduate courses, this textbook provides the astronomical and astrophysical background for students to explore more advanced topics. Special emphasis is given to the underlying physical principles of high energy astrophysics, helping students understand the essential physics. Now consolidated into a single-volume treatment, the third edition has been completely rewritten. It covers the most recent discoveries in areas such as gamma-ray bursts, ultra-high energy cosmic rays and ultra-high energy gamma rays. The topics have been rearranged and streamlined to make them more applicable to a wide range of different astrophysical problems.

## Book Information

Hardcover: 880 pages

Publisher: Cambridge University Press; 3 edition (March 14, 2011)

Language: English

ISBN-10: 0521756189

ISBN-13: 978-0521756181

Product Dimensions: 6.8 x 1.6 x 9.7 inches

Shipping Weight: 4.4 pounds (View shipping rates and policies)

Average Customer Review: 3.4 out of 5 stars 4 customer reviews

Best Sellers Rank: #806,651 in Books (See Top 100 in Books) #122 in Books > Science & Math > Physics > Nuclear Physics > Particle Physics #853 in Books > Textbooks > Science & Mathematics > Astronomy & Astrophysics #1112 in Books > Science & Math > Astronomy & Space Science > Astrophysics & Space Science

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"The third edition of Malcolm Longair's High Energy Astrophysics is a remarkable gem. It is written in the clear, lucid style that characterizes Professor Longair's monographs and displays an admirable balance between breadth and depth. It is remarkably up to date and covers both high-energy phenomenology and physical processes with authority. It would serve equally well as a textbook for a graduate-level course or a reference work for the practicing astrophysicist: a nicely written and sophisticated appendix on basic astronomy will make it equally useful for readers trained as physicists." Bradley M. Peterson, Professor and Chair of Astronomy, The Ohio State

University" The remarkable revolution in our understanding of the Universe is covered brilliantly in this authoritative third edition of a classic text by Professor Longair--the prominent Cambridge astrophysicist and one of the subject's most experienced expositors. The text conveys the excitement of the progress being made in both observational and computational astronomy and ably describes the physical processes involved prior to educating the reader on a comprehensive list of frontier research topics ranging from dead stars in our Galaxy, black holes in galactic nuclei to the evolutionary history of galaxies seen at early cosmic times. The new edition is comprehensively illustrated and indexed with up-to-date references and an essential purchase for all physicists and astronomers." Richard Ellis, Steele Professor of Astronomy, California Institute of Technology "This is a great book for students and researchers alike. It is up to date and covers the exciting new developments in high energy astrophysics. It will be on my shelf at arm's reach." Neil Gehrels, Chief, Astroparticle Physics Laboratory, NASA/GSFC and College Park Professor of Astronomy, University of Maryland "The book is really a treasure for any student and teacher interested in astrophysics. It is very up to date and synoptically covers the whole field of high-energy astrophysics. I will use the book for my lectures as soon as I can!" GÃ¶nther Hasinger, Scientific Director, Max-Planck-Institut fÃ¼r Plasmaphysik "... a substantial textbook ... likely to remain the standard on the subject for many years ... comprehensive in its spread of subject matter and methodical in presentation." Contemporary Physics

The third edition of this well-established textbook is ideal for advanced undergraduate and beginning graduate courses in high energy astrophysics. Now consolidated into a single-volume treatment, this textbook has been completely rewritten, providing a strong astronomical and astrophysical background for students to explore more advanced topics.

This book provided most of the information I needed for my class. However, it was not that well written. There were a number of mistakes/typos. On many topics the book would simply say the details were left as an exercise for the reader. However, the average reader would likely be unable to do this exercise without additional help. Overall it gets the job done, but I would get another more well written book without hesitation, if I could find it.

Very important book for a physics student at the university. This is valuable item in my bookcase. Thank you very much.

Good condition, but a much older edition than the one presented in "Look Inside". This book is just too old.

Excellent! I got it finally. This is the most useful book in the area of High Energy Astrophysics. I recommend it to all students and scientists. Very full ~1000 pages book from the most famous astroparticle physicist!

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