



Introduction to
**High-Energy
Astrophysics**

**Stephan Rosswog
and Marcus Brüggen**

CAMBRIDGE

High Energy Astrophysics

M. S. Longair, Malcolm S. Longair



High Energy Astrophysics:

High Energy Astrophysics Malcolm S. Longair, 2010-12-17 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 *High Energy Astrophysics: Volume 2, Stars, the Galaxy and the Interstellar Medium* M. S. Longair, Malcolm S. Longair, 1992 What role does viscosity play in accretion discs How do you calculate the glitch function of a pulsar And can strong shocks account for the energy spectrum of electrons in our Galaxy These are just some of the exciting questions that Professor Longair uses to develop the physics needed by the astronomer and high energy astrophysicist The highly acclaimed first edition of High Energy Astrophysics instantly established itself as a classic in the teaching of contemporary astronomy Reflecting the immense interest and developments in the subject Professor Longair has developed the second edition into three texts in this second volume he provides a comprehensive discussion of the high energy astrophysics of stars the Galaxy and the interstellar medium He develops an understanding for the essential physics with an elegance and infectious enthusiasm for which his teaching is internationally renowned illustrating the issues throughout with results from forefront research This book takes the student with a knowledge of physics and mathematics at the undergraduate level but not necessarily with training in astronomy to the point where current astronomical research can be understood *High Energy Astrophysics* Thierry J.-L. Courvoisier, 2012-10-03 High energy astrophysics has unveiled a Universe very different from that only known from optical observations It has revealed many types of objects in which typical variability timescales are as short as years months days and hours in quasars X ray binaries etc and even down to milli seconds in gamma ray bursts The sources of energy that are encountered are only very seldom nuclear fusion and most of the time gravitation a paradox when one thinks that gravitation is by many orders of magnitude the weakest of the fundamental interactions The understanding of these objects physical conditions and the processes revealed by high energy astrophysics in the last decades is nowadays part of astrophysicists culture even of those active in other domains of astronomy This book evolved from lectures given to master and PhD students at the University of Geneva since the early 1990s It aims at providing astronomers and physicists intending to be active in high energy astrophysics a broad basis on which they should be able to build the more specific knowledge they will need While in the first

part of the book the physical processes are described and derived in detail the second part studies astrophysical objects in which high energy astrophysics processes are crucial This two pronged approach will help students recognise physical processes by their observational signatures in contexts that may differ widely from those presented here

High-Energy Astrophysics Fulvio Melia, 2021-12-07 High energy astrophysics involves the study of exceedingly dynamic and energetic phenomena occurring near the most extreme celestial objects known to exist such as black holes neutron stars white dwarfs and supernova remnants High Energy Astrophysics provides graduate and advanced undergraduate students with the most complete self contained introduction to the subject available This textbook covers all the essentials weaving together the latest theory with the experimental techniques instrumentation and observational methods astronomers use to study high energy radiation from space Fulvio Melia introduces topics at the forefront of today's research including relativistic particles energetic radiation and accretion disk theory No other textbook offers such a thorough yet concise treatment of the key aspects of high energy astrophysics both theoretical and observational or delves as deeply into modern detection techniques satellite systems and analytical and numerical modeling used by theoreticians Amply illustrated High Energy Astrophysics is also ideal for researchers interested in the application of fundamental physical laws to understand how matter and radiation behave in regions of the universe where physical conditions are most extreme Uniquely weaves together the theoretical and experimental aspects of this important branch of astronomy Features stunning images of the high energy sky Fully describes the principal classes of high energy sources with an in depth study of many archetypal objects within them Provides an excellent self contained resource for the classroom written by a preeminent researcher and teacher in the field

High Energy Astrophysics Thierry J.-L. Courvoisier, 2012-10-03 High energy astrophysics has unveiled a Universe very different from that only known from optical observations It has revealed many types of objects in which typical variability timescales are as short as years months days and hours in quasars X ray binaries etc and even down to milli seconds in gamma ray bursts The sources of energy that are encountered are only very seldom nuclear fusion and most of the time gravitation a paradox when one thinks that gravitation is by many orders of magnitude the weakest of the fundamental interactions The understanding of these objects physical conditions and the processes revealed by high energy astrophysics in the last decades is nowadays part of astrophysicists culture even of those active in other domains of astronomy This book evolved from lectures given to master and PhD students at the University of Geneva since the early 1990s It aims at providing astronomers and physicists intending to be active in high energy astrophysics a broad basis on which they should be able to build the more specific knowledge they will need While in the first part of the book the physical processes are described and derived in detail the second part studies astrophysical objects in which high energy astrophysics processes are crucial This two pronged approach will help students recognise physical processes by their observational signatures in contexts that may differ widely from those presented here

The High Energy Universe Péter Mészáros, 2010-09-16 In the last two decades

cosmology particle physics high energy astrophysics and gravitational physics have become increasingly interwoven The intense activity taking place at the intersection of these disciplines is constantly progressing with the advent of major cosmic ray neutrino gamma ray and gravitational wave observatories for studying cosmic sources along with the construction of particle physics experiments using beams and signals of cosmic origin This book provides an up to date overview of the recent advances and potential future developments in this area discussing both the main theoretical ideas and experimental results It conveys the challenges but also the excitement associated with this field Written in a concise yet accessible style explaining technical details with examples drawn from everyday life it will be suitable for undergraduate and graduate students as well as other readers interested in the subject Colour versions of a selection of the figures are available at www.cambridge.org/9780521517003 *High-Energy Astrophysics* Jorge Ernesto Horvath, 2022-02-01 This textbook is designed to serve as a link between the basic disciplines of physics and the frontier topics within high energy astrophysics aiming at a level of difficulty congruent with that of other physics topics studied at undergraduate level Therefore this preparatory and introductory text serves as a gateway to a more detailed study of many of the most interesting and complex phenomena being investigated by contemporary astrophysics Among others these include the evolution of stars supernovae neutron stars black holes solar neutrinos and importantly the exciting new field of gravitational wave astronomy The book is supplemented by a collection of problems with which students can test their understanding of the material presented

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High Energy Astrophysics: Volume 1, Particles, Photons and Their Detection M. S. Longair, Malcolm S. Longair, 1992-02-27 Volume 1

Currents in High-Energy Astrophysics M.M. Shapiro, Rein Silberberg, John P. Wefel, 2012-12-06 Proceedings of the NATO Advanced Study Institute and Ninth Course of the

International School of Cosmic Ray Astrophysics Ettore Majorana Centre Erice Sicily Italy 7 18 May 1994

Advances In Very High Energy Astrophysics: The Science Program Of The Third Generation Iacts For Exploring Cosmic Gamma Rays Reshmi Mukherjee, Roberta Zanin, 2024-09-03 Very high energy astrophysics studies the most energetic photons in the sky allowing the exploration of violent and extreme non thermal phenomena in the Universe Significant advances in knowledge have been made in this field using ground based imaging atmospheric Cherenkov telescopes IACTs as detectors to study these physical processes in the Universe This book reviews the progress in the field since the advent of the second generation IACTs around 2004 Going through the scientific highlights obtained by the three current instruments of this kind H E S S MAGIC and VERITAS operating now for more than 15 years this book presents a state of the art knowledge in four areas of modern astrophysics and cosmology namely the origin of the cosmic rays the physics of compact objects and their resulting relativistic outflows gamma ray cosmology and the search for dark matter Along with a detailed review of the outstanding scientific outcomes a summary of the key technological developments that yielded the recognized success of the technique is also provided This book is written for early career academics in the fields of astrophysics high energy physics and cosmology At the same time it can serve as a source of reference for the expert in the field

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High energy astrophysics covers cosmic phenomena that occur under the most extreme physical conditions It explores the most violent events in the Universe the explosion of stars matter falling into black holes and gamma ray bursts the most luminous explosions since the Big Bang Driven by a wealth of observations there has been a large leap forward in our understanding of these phenomena Exploring modern topics of high energy astrophysics such as supernovae neutron stars compact binary systems gamma ray bursts and active galactic nuclei this 2007 textbook is ideal for undergraduate students in high energy astrophysics It is a self contained relevant overview of this exciting field of research

Assuming a familiarity with basic physics it introduces all other concepts such as gas dynamics or radiation processes in an instructive way An extended appendix gives an overview of some of the most important high energy astrophysics instruments and each chapter ends with exercises

Foundations of High-Energy Astrophysics Mario Vietri,2008-09-15 Written by one of today s most highly respected astrophysicists Foundations of High Energy Astrophysics is an introduction to the mathematical and physical techniques used in the study of high energy astrophysics Here Mario Vietri approaches the basics of high energy astrophysics with an emphasis on underlying physical processes as opposed to a more mathematical approach Alongside more traditional topics Vietri presents new subjects increasingly considered crucial to understanding high energy astrophysical sources including the electrodynamics of cosmic sources new developments in the theory of standard accretion disks and the physics of coronae thick disks and accretion onto magnetized objects The most thorough and engaging survey of high energy astrophysics available today Foundations of High Energy Astrophysics introduces the main physical processes relevant to the field in a rigorous yet accessible way while paying careful attention to observational issues Vietri s book will quickly become a classic text for students and active researchers in astronomy and astrophysics Those in adjoining fields will also find it a valuable addition to their personal libraries

Radiative Processes in High Energy Astrophysics Gabriele Ghisellini,2013-06-03 This book grew out of the author s notes from his course on Radiative Processes in High Energy Astrophysics The course provides fundamental definitions of radiative processes and serves as a brief introduction to Bremsstrahlung and black body emission relativistic beaming synchrotron emission and absorption Compton scattering synchrotron self compton emission pair creation and emission The final chapter discusses the observed features of Active Galactic Nuclei and their interpretation based on the radiative processes presented in the book Written in an informal style this book will guide students through their first encounter with high energy astrophysics

Lectures in High-energy Astrophysics Goddard Space Flight Center,1969

Instructor's Manual to High-Energy Astrophysics F. Melia,2009

HIGH ENERGY ASTROPHYSICS 21ST JOSS,1990 *High Energy Astrophysics: Volume 1, Particles, Photons and their Detection* Malcolm S. Longair,1992-02-27 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

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Table of Contents High Energy Astrophysics

1. Understanding the eBook High Energy Astrophysics
 - The Rise of Digital Reading High Energy Astrophysics
 - Advantages of eBooks Over Traditional Books
2. Identifying High Energy Astrophysics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an High Energy Astrophysics
 - User-Friendly Interface
4. Exploring eBook Recommendations from High Energy Astrophysics
 - Personalized Recommendations
 - High Energy Astrophysics User Reviews and Ratings
 - High Energy Astrophysics and Bestseller Lists
5. Accessing High Energy Astrophysics Free and Paid eBooks

- High Energy Astrophysics Public Domain eBooks
- High Energy Astrophysics eBook Subscription Services
- High Energy Astrophysics Budget-Friendly Options
- 6. Navigating High Energy Astrophysics eBook Formats
 - ePub, PDF, MOBI, and More
 - High Energy Astrophysics Compatibility with Devices
 - High Energy Astrophysics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of High Energy Astrophysics
 - Highlighting and Note-Taking High Energy Astrophysics
 - Interactive Elements High Energy Astrophysics
- 8. Staying Engaged with High Energy Astrophysics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers High Energy Astrophysics
- 9. Balancing eBooks and Physical Books High Energy Astrophysics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection High Energy Astrophysics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine High Energy Astrophysics
 - Setting Reading Goals High Energy Astrophysics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of High Energy Astrophysics
 - Fact-Checking eBook Content of High Energy Astrophysics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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