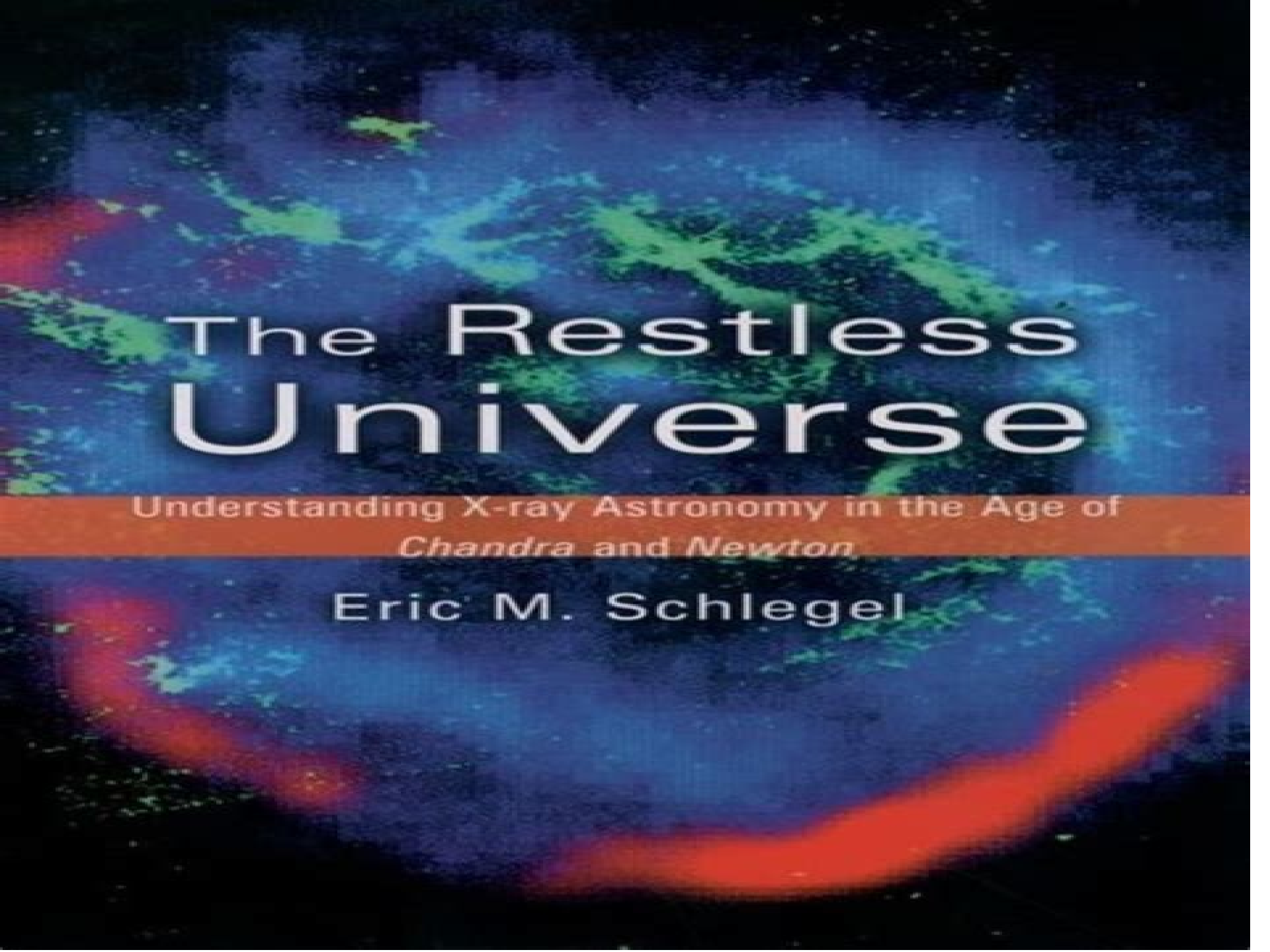




The Restless Universe

Understanding X-ray Astronomy in the Age of
Chandra and Newton

Eric M. Schlegel

Restless Universe Understanding X Ray Astronomy In The Age Of Chandra And Newton

**Steven M. Kahn, Peter Ballmoos, Rashid
A. Sunyaev**



Restless Universe Understanding X Ray Astronomy In The Age Of Chandra And Newton:

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The Restless Universe Eric M. Schlegel, 2002-10-03 Carl Sagan once noted that there is only one generation that gets to see things for the first time We are in the midst of such a time right now standing on the threshold of discovery in the young and remarkable field of X ray astronomy In The Restless Universe astronomer Eric Schlegel offers readers an informative survey of this cutting edge science Two major space observatories launched in the last few years NASA's Chandra and the European Newton are now orbiting the Earth sending back a gold mine of data on the X ray universe Schlegel who has worked on the Chandra project for seven years describes the building and launching of this space based X ray observatory But the book goes far beyond the story of Chandra What Schlegel provides here is the background a nonscientist would need to grasp the present and follow the future of X ray astronomy He looks at the relatively brief history of the field the hardware used to detect X rays the satellites past present and future that have been or will be flown to collect the data the way astronomers interpret this data and perhaps most important the insights we have already learned as well as speculations about what we may soon discover And throughout the book Schlegel conveys the excitement of looking at the universe from the perspective brought by these new observatories and the sharper view they deliver Drawing on observations obtained from Chandra Newton and previous X ray observatories The Restless Universe gives a first look at an exciting field which significantly enriches our understanding of the universe

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High-Energy Spectroscopic Astrophysics Steven M. Kahn, Peter Ballmoos, Rashid A. Sunyaev, 2005-09-05 After three decades of intense research in X ray and gamma ray astronomy the time was ripe to summarize basic knowledge on X ray and gamma ray spectroscopy for interested students and researchers ready to become involved in new high energy missions This volume exposes both the scientific basics and modern methods of high energy spectroscopic astrophysics The emphasis is on physical principles and observing methods rather than a discussion of particular classes of high energy objects but many examples and new results are included in the three chapters as well

The Quizzer's Guide to the Cosmos Stephen Webb, 2024-04-18 Have you ever gazed up at the night sky and wondered how many stars you can see Whether the universe is infinite Or more prosaically what the chances are of you being hit by a rock from space The Quizzer's Guide to the Cosmos is here to satisfy your curiosity by offering an overview of the history of astronomy from the earliest beginnings through to the most recent discoveries This isn't a typical astronomy book however it is packed with a 500 question multiple choice quiz that not only makes the book more interactive but also helps you retain information and lets you test your knowledge of some of the most captivating concepts in science The book will appeal to astronomy buffs and to general quiz aficionados alike Digital questions and answers also via app Download the Springer Nature Flashcards app free of charge and test your knowledge

Subatomic Physics (3rd Edition) Alejandro Garcia, Ernest M Henley, 2007-07-13 This is the third and fully updated edition of the classic textbook on physics at the subatomic level An up to date and lucid introduction to both particle and nuclear physics the book is suitable for both experimental and theoretical physics students at the senior undergraduate and beginning graduate levels Topics are introduced with key experiments and their background encouraging students to think and empowering them with the capability of doing back of the envelope calculations in a diversity of situations Earlier important experiments and concepts as well as topics of current interest are covered with extensive use of photographs and figures to convey principal concepts and show experimental data The coverage includes new material on Detectors and accelerators Nucleon elastic form factor data Neutrinos their masses and oscillations Chiral theories and effective field theories and lattice QCD Relativistic heavy ions RHIC Nuclear structure far from the region of stability Particle astrophysics and cosmology

Dreams of Other Worlds Chris Impey, Holly Henry, 2016-04-19 The story of unmanned space exploration from Viking to today Dreams of Other Worlds describes the unmanned space missions that have opened new windows on distant worlds Spanning four decades of dramatic advances in astronomy and planetary science this book tells the story of eleven iconic exploratory missions and how they

have fundamentally transformed our scientific and cultural perspectives on the universe and our place in it The journey begins with the Viking and Mars Exploration Rover missions to Mars which paint a startling picture of a planet at the cusp of habitability It then moves into the realm of the gas giants with the Voyager probes and Cassini s ongoing exploration of the moons of Saturn The Stardust probe s dramatic round trip encounter with a comet is brought vividly to life as are the SOHO and Hipparcos missions to study the Sun and Milky Way This stunningly illustrated book also explores how our view of the universe has been brought into sharp focus by NASA s great observatories Spitzer Chandra and Hubble and how the WMAP mission has provided rare glimpses of the dawn of creation Dreams of Other Worlds reveals how these unmanned exploratory missions have redefined what it means to be the temporary tenants of a small planet in a vast cosmos *A Question and Answer Guide to Astronomy* Pierre-Yves Bely,Carol Christian,Jean-René Roy,2017-03-23 Contains 250 questions and answers about astronomy particular for the amateur astronomer *USA in Space* Russell R. Tobias,David G. Fisher,2006 This books includes 280 essays covering U S major space programs piloted and robotic missions satellites space centers space planes and issues from the earliest missions to the present **Science and Scientists** Salem Press,2006 Documents the major breakthroughs in science from ancient times to the present with emphasis on the modern era

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