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"College Physics," Second Edition is the best solution for today's college physics market. With a unique, new, approach to physics that builds a conceptual framework as motivation for the physical principles, consistent problem solving coverage strategies, stunning art, extensive end-of-chapter material, and superior media support, Giambattista, Richardson, and Richardson delivers a product that addresses today's market needs with the best tools available.. With just 400 pages, this title provides readers with the results of recent research from some of the world's leading historians of astronomy on aspects of Arabic, Australian, Chinese, Japanese, and North and South American astronomy and astrophysics. Of particular note are the sections on Arabic astronomy, Asian applied astronomy and the history of Australian radio astronomy, and the chapter

on Peruvian astronomy. This title is of particular appeal to those with research interests in applied historical astronomy; archaeoastronomy; calendars, manuscripts, and star charts; historical instruments and observatories, and the history of radio astronomy. It is the customary practice to report the major events of a General Assembly -the Invited Discourses, Joint Discussions and Joint Commission Meetings in Highlights of Astronomy. Vol. 8 reports the highlights of the XXth General Assembly of the International Astronomical Union, 1988 August 2-11, Baltimore, USA. The present volume contains the 3 Invited Discourses and papers presented at 7 Joint Discussion Meetings and 6 Joint Commission Meetings. Two Joint Commission Meetings will be reported elsewhere -JCM5 Spectroscopy of Individual Stars in Globular Clusters and the Early Chemical Evolution of our Galaxy (in summary only here, published by the Imprimerie de l'Observatoire de Paris) and JCM7 Star Clusters in the Magellanic Clouds (see Transactions of the IAU, Vol.XXB, report of Commission 37). I am most grateful to the authors of the invited discourses R.M. West and V.I. Moroz, M. Schmidt and M. Rees for sending me the manuscripts so promptly. I am also indebted to the Chairmen of the Joint Discussion and Joint Commission Meetings for their organisation of the meetings and for the assembly of their material for publication. Unfortunately the deadline for receipt of manuscripts coincided with an extended postal strike in France which seriously hindered the preparation of the volume for publication. Dr. Orchiston is a foremost authority on the subject of New Zealand astronomy, and here are the collected papers of his fruitful studies in this area, including both those published many years ago and new material. The papers herein review traditional Maori astronomy, examine the appearance of nautical astronomy practiced by Cook and his astronomers on their various stopovers in New Zealand during their three voyages to the South Seas, and also explore notable nineteenth century New Zealand observatories historically, from significant telescopes now located in New Zealand to local and international observations made during the 1874 and 1882 transits of Venus and the nineteenth and twentieth century preoccupation of New Zealand amateur astronomers with comets and meteors. New Zealand astronomy has a truly rich history, extending from the Maori civilization in pre-European times through to the years when explorers and navigators discovered the region, up to pioneering research on the newly emerging field of radio astronomy during WWII and in the immediate post-war years. A complete survey of a neglected but rich national astronomical history, this does the subject full and comprehensive justice. "A most welcome addition to the literature of astronomical history." — Nature "A most important contribution to the early history of Greek thought and a notable monument of English scholarship." — Journal of

Hellenic Studies This classic work traces Aristarchus of Samos's anticipation by two millennia of Copernicus's revolutionary theory of the orbital motion of the earth. Heath's history of astronomy ranges from Homer and Hesiod to Aristarchus and includes quotes from numerous thinkers, compilers, and scholasticists from Thales and Anaximander through Pythagoras, Plato, Aristotle, and Heraclides. 34 figures. This revised and expanded popular media workbook is provided with all new copies of Bennett's book and includes a wide selection of in-depth activities using resources from The Astronomy Place and Voyager: SkyGazer, College Edition v3.6 planetarium software. These thought-provoking projects are suitable for the lab or as assignable homework assignments. **NOTE: You are purchasing a standalone product; MasteringAstronomy does not come packaged with this content. If you would like to purchase both the physical text and MasteringAstronomy search for 0133858642 / 9780133858648**

The Cosmic Perspective Fundamentals Plus MasteringAstronomy with eText, Access Card Package: Package consists of: 0133889564 / 9780133889567 Cosmic Perspective Fundamentals, The 0133905306 / 9780133905304 MasteringAstronomy with Pearson eText -- ValuePack Access Card -- for The Cosmic Perspective Fundamentals 0321712951 / 9780321712950 Starry Night College Student Access Code Card 0321765184 / 9780321765185 SkyGazer 5.0 Student Access Code Card (Integrated component) MasteringAstronomy should only be purchased when required by an instructor. For one-semester college courses in Introductory Astronomy. Teaching the Process of Science through Astronomy Inspired by an activities-based classroom approach, The Cosmic Perspective Fundamentals is the briefest introduction to astronomy in the Bennett series. By focusing on the process of science and fundamental concepts of astronomy, The Cosmic Perspective Fundamentals allows time for the use of other instructional tools in the course. Each concisely written chapter is formatted into two main sections followed by a Process of Science section, making learning targeted and expectations clear for students. The Second Edition of The Cosmic Perspective Fundamentals presents recent dramatic advances in astronomy and how they change our understanding of the cosmos. This new edition focuses on essential subjects of astronomy chosen for their importance to the field, interest, and engagement level, using goal-oriented lessons and practical tools to bring astronomy to life. The textbook is now supported in MasteringAstronomy to create an unrivalled learning suite for students and instructors. The YEARBOOK OF ASTRONOMY 2018 is a book no stargazer should be without. Recognized by both amateurs and professionals alike as an indispensable guide to the night sky, the Yearbook of Astronomy is one of the longest-running series of books on astronomy and the night sky and

one of the only reference books to be fully revised each year. Formerly edited by Patrick Moore, this iconic publication first appeared way back in 1962 (well over half-a-century ago) and continues to be, as it was then, the main popular astronomy annual for amateur astronomers. Forthcoming editions will endeavor to maintain the popular style and familiarity of previous editions as well as offering its readers a new, invigorating and inspirational layout and presentation. The 2018 edition contains authoritative sky charts and detailed monthly sky notes that plot a clear path through the year's lunar phases, eclipses, comets, meteor showers and minor planets as well as featuring a variety of articles covering a wide range of astronomy-related topics. Articles for the 2018 edition include: Solar System Exploration in 2017 by Peter Rea; Astronomy in 2017 by Rod Hine; Anniversaries in 2018 by Neil Haggath; Supermassive Black Holes by David M Harland; Comets and How to Photograph Them by Damian Peach; Some Pioneering Lady Astronomers by Mike Frost; Double and Multiple Stars by John McCue; Modern Video Astronomy by Steve Wainwright; Is There Still a Place for Art in Astronomy? by David A Hardy; and much more. Bursting with up-to-the-minute information, this Yearbook of Astronomy 2018 is, as ever, essential reading for anyone fascinated by the night sky . . . "Provides a cumulative guide to the general lessons of modern scientific cosmology, as well as the historical background that connects the nature of the universe with the reader's place in it"--Provided by publisher. Long before astronomy was a science, humans used the stars to mark time, navigate, organize planting and dramatize myths. This encyclopaedia draws on archaeological evidence and oral traditions to reveal how prehistoric humans perceived the skies and celestial phenomena. Careers in astronomy for women (as in other sciences) were a rarity in Britain and Ireland until well into the twentieth century. The book investigates the place of women in astronomy before that era, recounted in the form of biographies of about 25 women born between 1650 and 1900 who in varying capacities contributed to its progress during the eighteenth, nineteenth and early twentieth centuries. There are some famous names among them whose biographies have been written before now, there are others who have received less than their due recognition while many more occupied inconspicuous and sometimes thankless places as assistants to male family members. All deserve to be remembered as interesting individuals in an earlier opportunity-poor age. Placed in roughly chronological order, their lives constitute a sample thread in the story of female entry into the male world of science. The book is aimed at astronomers, amateur astronomers, historians of science, and promoters of women in science, but being written in non-technical language it is intended to be of interest also to educated readers generally. Our world is being revolutionized by data-driven

methods: access to large amounts of data has generated new insights and opened exciting new opportunities in commerce, science, and computing applications. Processing the enormous quantities of data necessary for these advances requires large clusters, making distributed computing paradigms more crucial than ever. MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large-scale data processing on clusters of commodity servers. The programming model provides an easy-to-understand abstraction for designing scalable algorithms, while the execution framework transparently handles many system-level details, ranging from scheduling to synchronization to fault tolerance. This book focuses on MapReduce algorithm design, with an emphasis on text processing algorithms common in natural language processing, information retrieval, and machine learning. We introduce the notion of MapReduce design patterns, which represent general reusable solutions to commonly occurring problems across a variety of problem domains. This book not only intends to help the reader "think in MapReduce", but also discusses limitations of the programming model as well. This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science. Synthesis Lectures provide concise, original presentations of important research and development topics, published quickly, in digital and print formats. For more information visit www.morganclaypool.com A guide to astronomy which attempts to offer the most up-to-date information on the subject. Designed to be used for either individual study or classroom use, the book covers the GCSE syllabus requirements and relevant elements of physics, general science and general studies courses. This textbook takes an 'Earth-out' progression, covering the solar system, followed by the Sun, and then moves on to stars and galaxies. While the text is descriptive (largely conceptual) it does provide quantitative material, including worked examples in optional boxed sections. Prefaced by a history of ancient Greek astronomy, this 1913 edition of Aristarchus' only surviving treatise includes a facing-page translation. The discovery of a gradual acceleration in the moon's mean motion by Edmond Halley in the last decade of the seventeenth century led to a revival of interest in reports of astronomical observations from antiquity. These observations provided the only means to study the moon's 'secular acceleration', as this newly-discovered acceleration became known. This book contains the first detailed study of the use of ancient and medieval astronomical observations in order to investigate the moon's secular acceleration from its discovery by Halley to the establishment of the magnitude of the acceleration by Richard Dunthorne, Tobias Mayer and Jérôme Lalande in the 1740s and 1750s. Making extensive use of previously

unstudied manuscripts, this work shows how different astronomers used the same small body of preserved ancient observations in different ways in their work on the secular acceleration. In addition, this work looks at the wider context of the study of the moon's secular acceleration, including its use in debates of biblical chronology, whether the heavens were made up of æther, and the use of astronomy in determining geographical longitude. It also discusses wider issues of the perceptions and knowledge of ancient and medieval astronomy in the early-modern period. This book will be of interest to historians of astronomy, astronomers and historians of the ancient world. Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given by

"A really great and novel way to encourage people to push themselves beyond their comfort zone and engender self-reliance." -- Levison Wood

After debilitating anxiety and panic attacks began to impact his daily life, Ben Aldridge decided to tackle his mental health issues in a creative way. His journey led him on a year of completing weird and wonderful challenges in the name of self-improvement. By deliberately leaving his comfort zone and enduring difficulties, Ben completely changed his life. Ice-cold showers, eating repulsive insects, running marathons, sleeping in unusual places, wearing ridiculous clothes and learning to solve the Rubik's cube in under a minute are some of the ways Ben has pushed his body and mind to learn more, endure more and conquer more. Varying in length, difficulty and category, Ben explains how to complete each challenge, how it changed his life and how you can push yourself with this practical method of self-development. From learning a new language to climbing a mountain, see how far you can challenge yourself to overcome your fears and self-imposed limitations. Packed with useful tips and tricks from Stoicism, Buddhism, CBT and popular psychology, this book encourages us to face our fears, embrace adversity and leave our comfort zones. Are you ready to get uncomfortable and build a more resilient mindset? The authors present a broad view of astronomy without complex mathematics, yet the book discusses important concepts without simplification. Astronomy is written in clear non-technical language, with the occasional touch of humor and a wide range of clarifying illustrations. It has many analogies drawn from everyday life to help non-science majors appreciate, on their own terms, what our modern exploration of the universe is revealing. The book can be used for either a one-semester or two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low cost in printed form) to students around the world.

If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was written, updated, and reviewed by a broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical Instruments Chapter 7: Other Worlds: An Introduction to the Solar System Chapter 8: Earth as a Planet Chapter 9: Cratered Worlds Chapter 10: Earthlike Planets: Venus and Mars Chapter 11: The Giant Planets Chapter 12: Rings, Moons, and Pluto Chapter 13: Comets and Asteroids: Debris of the Solar System Chapter 14: Cosmic Samples and the Origin of the Solar System Chapter 15: The Sun: A Garden-Variety Star Chapter 16: The Sun: A Nuclear Powerhouse Chapter 17: Analyzing Starlight Chapter 18: The Stars: A Celestial Census Chapter 19: Celestial Distances Chapter 20: Between the Stars: Gas and Dust in Space Chapter 21: The Birth of Stars and the Discovery of Planets outside the Solar System Chapter 22: Stars from Adolescence to Old Age Chapter 23: The Death of Stars Chapter 24: Black Holes and Curved Spacetime Chapter 25: The Milky Way Galaxy Chapter 26: Galaxies Chapter 27: Active Galaxies, Quasars, and Supermassive Black Holes Chapter 28: The Evolution and Distribution of Galaxies Chapter 29: The Big Bang Chapter 30: Life in the Universe Appendix A: How to Study for Your Introductory Astronomy Course Appendix B: Astronomy Websites, Pictures, and Apps Appendix C: Scientific Notation Appendix D: Units Used in Science Appendix E: Some Useful Constants for Astronomy Appendix F: Physical and Orbital Data for the Planets Appendix G: Selected Moons of the Planets Appendix H: Upcoming Total Eclipses Appendix I: The Nearest Stars, Brown Dwarfs, and White Dwarfs Appendix J: The Brightest Twenty Stars Appendix K: The Chemical Elements Appendix L: The Constellations Appendix M: Star Charts and Sky Event Resources Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

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