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BECKER LEBLANC

CliffsNotes Astronomy Perseus Books

Through eight editions, Swokowski's mathematical accuracy continues to be a trademark. Swokowski's unique problem sets present a variety of challenging and motivating exercises for students. Currently, the Seventh Edition is used at more than sixty U.S. schools.

Modern Principles of Economics (Loose Leaf) CRC Press

This concise textbook, designed specifically for a one-semester course in astrophysics, introduces astrophysical concepts to undergraduate science and engineering students with a background in college-level, calculus-based physics. The text is organized into five parts covering: stellar properties; stellar structure and evolution; the interstellar medium and star/planet formation; the Milky Way and other galaxies; and cosmology. Structured around short easily digestible chapters, instructors have flexibility to adjust their course's emphasis as it suits them. Exposition drawn from the author's decade of teaching his course guides students toward a basic but quantitative understanding, with 'quick questions' to spur practice in basic computations, together with more challenging multi-part exercises at the end of each chapter. Advanced concepts like the quantum nature of energy and radiation are developed as needed. The text's approach and level bridge the wide gap between introductory astronomy texts for non-science majors and advanced undergraduate texts for astrophysics majors.

Lectures On Computation Cambridge University Press

How will we meet rising energy demands? What are our options? Are there viable long-term solutions for the future? Learn the fundamental physical, chemical and materials science at the heart of: • Renewable/non-renewable energy sources • Future transportation systems • Energy efficiency • Energy storage Whether you are a student taking an energy course or a newcomer to the field, this textbook will help you understand critical relationships between the environment, energy and sustainability. Leading experts provide comprehensive coverage of each topic, bringing together diverse subject matter by integrating theory with engaging insights. Each chapter includes helpful features to aid understanding, including a historical overview to provide context, suggested further reading and questions for discussion. Every subject is beautifully illustrated and brought to life with full color images and color-coded sections for easy browsing, making this a complete educational package. Fundamentals of Materials for Energy and Environmental Sustainability will enable today's scientists and educate future generations.

Social Science Research Springer Science & Business Media

"This book provides a contemporary and complete introduction to astrophysics for astronomy and physics majors."--

Fundamentals of College Astronomy Experiments Online Addison-Wesley

Guiding the reader through all the stages that lead to the formation of a star such as our Sun, this advanced textbook provides students with a complete overview of star formation. It examines the underlying physical processes that govern the evolution from a molecular cloud core to a main-sequence star, and focuses on the formation of solar-mass stars. Each chapter combines theory and observation, helping readers to connect with and understand the theory behind star formation. Beginning with an explanation of the interstellar medium and molecular clouds as sites of star formation, subsequent chapters address the building of typical stars and the formation of high-mass stars, concluding with a discussion of the by-products and consequences of star formation. This is a unique, self-contained text with sufficient background information for self-study, and is ideal for students and professional researchers alike.

Fundamentals of College Astronomy CRC Press

Lecture-Tutorials for Introductory Astronomy provides a collection of 44 collaborative learning, inquiry-based activities to be used with introductory astronomy courses. Based on education research, these activities are "classroom ready" and lead to deeper, more complete understanding through a series of structured questions that prompt you to use reasoning and identify and correct their misconceptions. All content has been extensively field tested and six new tutorials have been added that respond to reviewer demand, numerous interviews, and nationally conducted workshops.

21st Century Astronomy Macmillan Higher Education

Get the information you need-fast! CliffsNotes Quick Review course guides cover the essentials of your toughest classes. Get a firm grip on core concepts and key material, and test your newfound knowledge with review questions. Introducing each topic, defining key terms, and carefully walking you through each sample problem, these guides help you grasp and understand the important concepts needed to succeed. From planets, stars, and galaxies to the search for extraterrestrial life, CliffsNotes Astronomy: Quick Review gives you jargon-free explanations of the fundamentals-including all the latest discoveries and theories. This guide introduces each topic, defines key terms, and carefully walks you through each sample problem step-by-step. The essentials - FAST - from the experts at CliffsNotes Complete coverage of core concepts Easy topic-by-topic organization Access hundreds of practice problems at www.cliffsnotes.com In no time, you'll be ready to tackle the key concepts, such as: The history and science of astronomy Origin and evolution of the solar system Hertzsprung-Russell diagram Final end states of stars Types of galaxies and their classification With Review Questions, a Resource Center, and a Glossary. Why CliffsNotes? In plain words and useful formats, CliffsNotes Astronomy: Quick Review provides an overview of the universe and every known type of object that exists within it, so that you can use your study time efficiently. Use this reference in any way that fits your personal style for study and review-you decide what works best with your needs. With titles available for all the most popular high school and college courses, CliffsNotes Quick Review guides are a comprehensive resource that can help you get the best possible grades. Access 500 additional practice questions at www.cliffsnotes.com From the makers of the books you've known and trusted for years!

Astrophysics for Physicists Courier Corporation

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

The Fundamentals of College Chemistry Brooks/Cole

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.

Fundamentals of Astronomy World Scientific Publishing Company

Introduction to Astronomy & Cosmology is a modern undergraduate textbook, combining both the theory behind astronomy with the very latest developments. Written for science students, this book takes a carefully developed scientific approach to this dynamic subject. Every major concept is accompanied by a worked example with end of chapter problems to improve understanding Includes coverage of the very latest developments such as double pulsars and the dark galaxy. Beautifully illustrated in full colour throughout Supplementary web site with many additional full colour images, content, and latest developments.

College Physics Cambridge University Press

As evidenced by five Nobel Prizes in physics, radio astronomy in its 80-year history has contributed greatly to our understanding of the universe. Yet for too long, there has been no suitable textbook on radio astronomy for undergraduate students. Fundamentals of Radio Astronomy: Observational Methods is the first undergraduate-level textbook exclus

Astronomical Instrumentation CRC Press

The focus of this book lies at the meeting point of electromagnetic waveguides and photonic crystals. Although these are both widely studied topics, they have been kept apart until recently. The purpose of the first edition of this book was to give state-of-the-art theoretical and numerical viewpoints about exotic fibres which use "photonic crystal effects" and consequently exhibit some remarkable properties. Since that first edition, photonic crystal fibres have become an important and effective optical device. In this second edition, the description of the theoretical and numerical tools used to study these fibres is enhanced, whilst up-to-date information about the properties, applications and fabrication of these fibres is added./a

The Cosmic Perspective Fundamentals Cambridge University Press

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that

incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Letters on Astronomy Cambridge University Press

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 b

Introductory Notes on Planetary Science CRC Press

Galaxies, along with their underlying dark matter halos, constitute the building blocks of structure in the Universe. Of all fundamental forces, gravity is the dominant one that drives the evolution of structures from small density seeds at early times to the galaxies we see today. The interactions among myriads of stars, or dark matter particles, in a gravitating structure produce a system with fascinating connotations to thermodynamics, with some analogies and some fundamental differences. Ignacio Ferreras presents a concise introduction to extragalactic astrophysics, with emphasis on stellar dynamics, and the growth of density fluctuations in an expanding Universe. Additional chapters are devoted to smaller systems (stellar clusters) and larger ones (galaxy clusters). *Fundamentals of Galaxy Dynamics, Formation and Evolution* is written for advanced undergraduates and beginning postgraduate students, providing a useful tool to get up to speed in a starting research career. Some of the derivations for the most important results are presented in detail to enable students appreciate the beauty of maths as a tool to understand the workings of galaxies. Each chapter includes a set of problems to help the student advance with the material.

Fundamentals of Radio Astronomy Cambridge University Press

Planets come in many different sizes, and with many different compositions, orbiting our Sun and countless other stars. Understanding their properties and interactions requires an understanding of a diverse set of sub-fields, including orbital and atmospheric dynamics, geology, geophysics, and

chemistry. This textbook provides a physics-based tour of introductory planetary science concepts for undergraduate students majoring in astronomy, planetary science, or related fields. It shows how principles and equations learned in introductory physics classes can be applied to study many aspects of planets, including dynamics, surfaces, interiors, and atmospheres. It also includes chapters on the discovery and characterization of extrasolar planets, and the physics of planet formation. Key Features Covers a wide range of planetary science topics at an introductory level Coherently links the fields of solar system science, exoplanetary science, and planet formation Each chapter includes homework questions Includes python templates for reproducing and customizing the figures in the book

Astronomy Cambridge University Press

Influenced by astronomy education research, 21st Century Astronomy offers a complete pedagogical and media package that facilitates learning by doing, while the new one-column design makes the Fifth Edition the most accessible introductory text available today.

Fundamentals of Astrodynamics Kendall/Hunt Publishing Company

This three-volume set details the essential roles that small telescopes should play in 21st century science and how their future productivity can be maximized. Over 70 international experts have created a definitive reference on the present and future of "big science with small telescopes".

Fundamentals of College Astronomy Experiments W. W. Norton

Astronomy is the field of science devoted to the study of astronomical objects, such as stars, galaxies, and nebulae. Astronomers have gathered a wealth of knowledge about the universe through hundreds of years of painstaking observations. These observations are interpreted by the use of physical and chemical laws familiar to mankind. These interpr

Hellenistic Astronomy Brill's Companions to Classica

Explains the fundamentals of astronomy together with the hottest current topics in this field, such as exoplanets and gravitational waves.