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Introductory Astronomy and Astrophysics Introductory Astronomy & Astrophysics Studyguide for Astronomy Studyguide for Astronomy Astronomy Introduction to Astronomy and Astrophysics Prehistoric Astronomy in the Southwest Catalog of Infrared Observations People Of Chaco Revised And Updated Catalog of Infrared Observations: Appendixes The Spirit and the Sky NASA Reference Publication The Velizh Affair Introduction to Astronomical Photometry Exploring Ancient Skies Foundations of New World Cultural Astronomy Stellar Photometry: Current Techniques and Future Developments A Student's Guide to Einstein's Major Papers Active Learning Astronomy for Astronomy: The Evolving Universe Living the Sky Conceptual Astronomy Introductory Astronomy and Astrophysics Surface Inhomogeneities on Late-type Stars Discipline-Based Education Research Close Binaries in the 21st Century: New Opportunities and Challenges Active Close Binaries International Handbook of Research in History, Philosophy and Science Teaching The Hidden Curriculum - Faculty Made Tests in Science Proceedings of the Platinum Jubilee Symposium on [sic] Nizamiah Observatory on Binary and Multiple Systems (22-24 November, 1983) Cool Stars, Stellar Systems and the Sun Astronomy Across Cultures Breaking the Mind Barrier Astronomy, the Cosmic Perspective Information Bulletin on Variable Stars Archaeoastronomy Space Science Education and Promoting North-south Partnership in Space Research Light Curve Modeling of Eclipsing Binary Stars Angular Momentum Evolution of Young Stars Discovering North American Rock Art

Never HIGHLIGHT a Book Again Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780872893795. This item is printed on demand. Uses an innovative, imaginative approach to the subject, stressing scientific model making. Develops concepts from the concrete to the abstract, resulting in a traditional earth to universe organization. Identifies 25 basic issues which tie astronomer's current view of the universe together. End-of-chapter summaries unite key terms to key ideas in order to reinforce their relationships for students. On April 22, 1823, a three-year-old boy named Fedor finished his lunch and went to play outside. Fedor never returned home from his walk. Several days later, a neighbor found his mutilated body drained of blood and repeatedly pierced. In small market towns, where houses were clustered together, residents knew each other on intimate terms, and people gossiped in taverns, courtyards, and streets, even the most trivial bits of news spread like wildfire. It did not take long before rumors began to emerge that Jews murdered the little boy. The Velizh Affair reconstructs the lives of Jews and their Christian neighbors caught up in the aftermath of this chilling criminal act. The investigation into Fedor's death resulted in the charging of forty-three Jews with ritual murder, theft and desecration of Church property, and the forcible conversion of three town residents. Drawing on an astonishing number of newly discovered trial records, historian Eugene M. Avrutin explores the multiple factors that not only caused fear and conflict in everyday life, but also the social and cultural worlds of a multiethnic population that had coexisted for hundreds of years. This beautifully crafted book provides an intimate glimpse into small-town life in eastern Europe. The case unfolded in a town like any other town in the Russian Empire where lives were closely interwoven, where rivalries and confrontations were part of day-to-day existence, and where the blood libel was part of a well-established belief system. Siler's provocative and highly accessible work is designed to help readers gain a fuller understanding of this artist/visionary's latest tome, casting a fresh light on the unrealized symmetry of the mind and the universe. Illustrations. Never HIGHLIGHT a Book Again!

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Accompanys: 9780521800907 . The contributions in this volume discuss the magnetic structures in the outer atmospheres of active late-type stars, and in particular the various methods available for imaging surface features on these objects. Emphasis has been laid upon multiwavelength studies of the phenomena and the application of solar astrophysics to stellar objects. The book is recommended to research workers or postgraduate students in stellar astrophysics. This book reports the Proceedings of the NATO Advanced Research Workshop on "Angular Momentum Evolution of Young Stars" held from 17 to 21 September 1990 at Noto, Italy. The workshop had its immediate origin in a discussion about the availability of stellar rotation data, that took place in 1987 at Viana do Castelo Portugal during the NATO meeting, Formation and Evolution of Low Mass Stars. We recognized that nearly 20 years had passed since the last meeting on stellar rotation and that significant progress in the observation of rotation rates in low mass stars had been made. During the last 20 years, new efficient instrumentation (CCD and photon counting detectors and echelle spectrographs) and new analysis techniques (profile Fourier analysis) have allowed us to measure rotational velocities as low as 1-2 km/s and to reach low mass stars in young clusters. Even with these advances, rotational velocities of low mass stars would have remained challenging to determine if all single, low mass stars later than GO had rotational velocities of order or less than 10 km/sec. Evidence that this is not always the case was first provided by the photometric variability data obtained by van Leeuwen and Alphenaar for K dwarfs in the Pleiades and more recently by the vsini measurements of low mass stars in several young clusters. This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical, curricular and pedagogical issues in the teaching of science and mathematics. It is contributed to by 130 researchers from 30 countries; it provides a logically structured, fully referenced guide to the ways in which science and mathematics education is, informed by the history and philosophy of these disciplines, as well as by the philosophy of education more generally. The first handbook to cover the field, it lays down a much-needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject. The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education, attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects. There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science; this handbook is uniquely positioned as a locus for the discussion. The handbook features sections on pedagogical, theoretical, national, and biographical research, setting the literature of each tradition in its historical context. It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching, and that lessons can be learnt from these engagements for the resolution of current theoretical, curricular and pedagogical questions that face teachers and administrators. Science educators will be grateful for this unique, encyclopaedic handbook, Gerald Holton, Physics Department, Harvard University This handbook gathers the fruits of over thirty years' research by a growing international and cosmopolitan community Fabio Bevilacqua, Physics Department, University of Pavia From the high plains of Canada to caves in the southeastern United States, images etched into and painted on stone by ancient Native Americans have aroused in observers the desire to understand their origins and meanings. Rock paintings and engravings can be found in nearly every state and province, and each region has its own distinctive story of discovery and evolving investigation of the rock art record. Rock art in the twenty-first century enjoys a large and growing popularity fueled by scholarly research and public interest alike. This book explores the history of rock art research in North America and is the only volume in the past twenty-five years to provide coverage of the subject on a continental scale. Written by contributors active in rock art research, it examines sites that

provide a cross-section of regions and topics and complements existing books on rock art by offering new information, insights, and approaches to research. The first part of the volume explores different regional approaches to the study of rock art, including a set of varied responses to a single site as well as an overview of broader regional research investigations. It tells how Writing-on-Stone in southern Alberta, Canada, reflects changing thought about rock art from the 1870s to today; it describes the role of avocational archaeologists in the Mississippi Valley, where rock art styles differ on each side of the river; it explores discoveries in southwestern mountains and southeastern caves; and it integrates the investigation of cupules along Georgia's Yellow River into a full study of a site and its context. The book also compares the differences between rock art research in the United States and France: from the outset, rock art was of only marginal interest to most U.S. archaeologists, while French prehistorians considered cave art an integral part of archaeological research. The book's second part is concerned with working with the images today and includes coverage of gender interests, government sponsorship, the role of amateurs in research, and chronometric studies. Much has changed in our understanding of rock art since Cotton Mather first wrote in 1714 of a strange inscription on a Massachusetts boulder, and the cutting-edge contributions in this volume tell us much about both the ancient place of these enduring images and their modern meanings. Discovering North American Rock Art distills today's most authoritative knowledge of the field and is an essential volume for both specialists and hobbyists. Since the 1970s symposia or colloquia devoted to recent research on close binaries have been held around the world almost annually. At meetings of the General Assembly of the International Astronomical Union this topic has also been discussed in detail at presentations in various commission meetings and also as invited talks by leading astronomers in the field. In recent years, fundamental changes have taken place in the study of close binaries due to the improvements in observational techniques, extension of observations from X-ray to radio regions of the electromagnetic spectrum, and advances in theoretical studies. For more than a decade, a group of astronomers at Ege University Observatory has been concentrating on active close binaries with particular emphasis on the behaviour of the light curves of chromospherically active systems. Thus, we decided to organize an international meeting in Western Anatolia, where this part of Turkey had been the cradle for great developments in science during antiquity. KUljadasi, located only minutes away from Ephesus, one of the seven wonders of the world, was selected to be the meeting site. Close binary systems constitute a very rich source of information about the physical properties of the component stars. Some systems are eclipsing variables, where periodic recurrences of eclipses are observed as comparatively brief decreases in the total brightness of the binary system. Precise methods of photometric observations make it possible to obtain the light variations of these systems because of eclipses and other phenomena. Exploring Ancient Skies brings together the methods of archaeology and the insights of modern astronomy to explore the science of astronomy as it was practiced in various cultures prior to the invention of the telescope. The book reviews an enormous and growing body of literature on the cultures of the ancient Mediterranean, the Far East, and the New World (particularly Mesoamerica), putting the ancient astronomical materials into their archaeological and cultural contexts. The authors begin with an overview of the field and proceed to essential aspects of naked-eye astronomy, followed by an examination of specific cultures. The book concludes by taking into account the purposes of ancient astronomy: astrology, navigation, calendar regulation, and (not least) the understanding of our place and role in the universe. Skies are recreated to display critical events as they would have appeared to ancient observers - events such as the supernova of 1054, the 'lion horoscope' or the 'Star of Bethlehem.' Exploring Ancient Skies provides a comprehensive overview of the relationships between astronomy and other areas of human investigation. It will be useful as a reference for scholars and students in both astronomy and archaeology, and will be of compelling interest to readers who seek a broad understanding of our collective intellectual history. Updated with the latest archaeological and anthropological evidence, "People of Chaco" is an essential book on the Chaco culture and ruins of

northwestern New Mexico. Maps & photos. The student supplement to the successful textbook describing the full range of the astronomical universe. State-of-the-art and future technology in stellar photometry in a comprehensive and timely review. The ninth edition of this successful textbook describes the full range of the astronomical universe and how astronomers think about the cosmos. Archaeoastronomy is a discipline pioneered at Stonehenge and other megalithic sites in Britain and France. Many sites in the southwestern United States have yielded evidence of the prehistoric Anasazi's intense interest in astronomy, similar to that of the megalithic cultures of Europe. Drawing on the archaeological evidence, ethnographical parallels with historic pueblo peoples, and mythology from other cultures around the world, the authors present theories about the meaning and function of the mysterious stone alignments and architectural orientations of the prehistoric Southwest. In the two decades since the development of the first eclipsing-binary modeling code, new analytic techniques and the availability of powerful, sometimes dedicated computing facilities have made possible vastly improved determinations of fundamental and even transient stellar parameters. The scale of these developments, of course, raises questions about modeling tools, techniques, and philosophies, such as: Who will maintain and upgrade the codes? Will the codes be open to improvement by outsiders, and if so, how? And, indeed, what should be the goals of a modeling program? Such questions had not been aired for a long time and, for this reason alone, deserved to be discussed in as general a forum as the community provides. This volume contains material presented by Commission 42 (Close Binary Stars) during the International Astronomical Union's XXI General Assembly in Argentina, July 1991, and during IAU Colloquium 151, Cordoba, Argentina, August 1991. The techniques discussed include simulations of stellar bright and dark spots, streams, partial and complete stellar disks, prominences, and other features characterizing active stars; modeling of polarization parameters; models that use radial velocities as well as line profile simulations to model velocity field variation across stellar disks; the weighted effects of brightness asymmetries; and models for translucent eclipsing agents such as stellar winds. Published in cooperation with the American Indian Studies Research Institute, Indiana University, Bloomington. This advanced undergraduate text provides broad coverage of astronomy and astrophysics with a strong emphasis on physics. It has an algebra and trigonometry prerequisite, but calculus is preferred. Review of astronomical photometry for graduate students, researchers and advanced amateurs in practical and observational astronomy. This book is the proceedings of an international conference entitled "Close Binaries in the 21st Century: New Opportunities and Challenges", held in Syros island, Greece, June 27-30, 2005. The papers collected in this volume detail the latest achievements in the field and reflect the state of the art of the dynamically evolving area of binary star research. In 1905 Albert Einstein produced breakthrough work in three major areas of physics (atoms and Brownian motion, quanta, and the special theory of relativity), followed, in 1916, by the general theory of relativity. This book develops the detail of the papers, including the mathematics, to guide the reader in working through them. Imagine the North American Indians as astronomers carefully watching the heavens, charting the sun through the seasons, or counting the sunrises between successive lunar phases. Then imagine them establishing observational sites and codified systems to pass their knowledge down through the centuries and continually refine it. A few years ago such images would have been abruptly dismissed. Today we are wiser. *Living the Sky* describes the exciting archaeoastronomical discoveries in the United States in recent decades. Using history, science, and direct observation, Ray A. Williamson transports the reader into the sky world of the Indians. We visit the Bighorn Medicine Wheel, sit with a Zuni sun priest on the winter solstice, join explorers at the rites of the Hopis and the Navajos, and trek to Chaco Canyon to make direct on-site observations of celestial events. The National Science Foundation funded a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and

instructional resources that can facilitate student understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines, as well as guide instruction and assessment across natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers, research sponsors, and education advocacy groups. Cultural astronomy, first called archaeoastronomy, has evolved at ferocious speed since its genesis in the 1960s, with seminal essays and powerful rebuttals published in far-flung, specialized journals. Until now, only the most closely involved scholars could follow the intellectual fireworks. In Foundations of New World Cultural Astronomy, The ninth edition of this successful textbook describes the full range of the astronomical universe and how astronomers think about the cosmos. Astronomy Across Cultures: A History of Non-Western Astronomy consists of essays dealing with the astronomical knowledge and beliefs of cultures outside the United States and Europe. In addition to articles surveying Islamic, Chinese, Native American, Aboriginal Australian, Polynesian, Egyptian and Tibetan astronomy, among others, the book includes essays on Sky Tales and Why We Tell Them and Astronomy and Prehistory, and Astronomy and Astrology. The essays address the connections between science and culture and relate astronomical practices to the cultures which produced them. Each essay is well illustrated and contains an extensive bibliography. Because the geographic range is global, the book fills a gap in both the history of science and in cultural studies. It should find a place on the bookshelves of advanced undergraduate students, graduate students, and scholars, as well as in libraries serving those groups.

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