

Introductory Astronomy And Astrophysics Zeilik

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precalculusJournal of Astronomical History and Heritage Michael Zeilik Michael Zeilik Michael Zeilik
Todd Siler Bernard F. Burke C.R. Kitchin Günter D. Roth David H. Kelley Thomas Michael Corwin
Stephen J. Shawl Gary K. Rockswold Gary K. Rockswold Gary K. Rockswold
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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

the ninth edition of this successful textbook describes the full range of the astronomical universe and how astronomers think about the cosmos

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

radio astronomy uses unique observational techniques and offers the only way to investigate many phenomena in the universe this book by two founders of the field presents both a clear introduction to radio telescopes and techniques and a broad overview of the radio universe the material in this new edition has been expanded and updated reflecting the developments in the field over the last decade new material reflects the increasing use of aperture synthesis and very long baseline interferometry and the further exploitation of molecular spectral lines a new chapter is devoted to the fundamentals of radiation and propagation theory the second half of the book constitutes a review of radio observations of our milky way galaxy wide ranging and clearly written this book provides a thorough and up to date introduction to the subject for graduate students and an invaluable overview for researchers turning to radio astronomy for the first time

emphasizing the underlying unity of all astronomical observations astrophysical techniques fifth edition provides a coherent state of the art account of the instruments and techniques used in current astronomy and astrophysics the fifth edition of this well respected text includes many new instruments and techniques while removing some that have long been unused by both professional and amateur astronomers new to the fifth edition brief discussion on the invention and development of the telescope new section that describes the attempts to detect dark matter and dark energy extended and updated discussions on computer internet and spacecraft based observations and research by covering the instruments techniques theory and data processing of astrophysics in sufficient depth this text forms a thorough grounding for beginners and is a handy reference for more advanced students and professionals

it is a pleasure to present this work which has been well received in german speaking countries through four editions to the english speaking reader we feel that this is a unique publication in that it contains valuable material that cannot easily if at all be found elsewhere we are grateful to the authors for reading through the english version of the text and for responding promptly for the most part to our queries several authors have supplied us on their own initiative or at our suggestion with revised and updated manuscripts and with supplementary english references we have striven to achieve a translation of handbuch for sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original german text where appropriate we have inserted footnotes to clarify material which may have a different meaning and or application in english speaking countries from that in germany when the first english edition of this work astronomy a handbook translated by the late a beer appeared in 1975 it contained 21 chapters this new edition is over twice the length and contains 28 authored chapters in three volumes at springer's request we have devised a new title compendium of practical astronomy to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages

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

this book intended for a graphing required college algebra and trigonometry or precalculus course offers an innovative approach by demonstrating the importance of mathematics to students and presenting the material in an accessible manner the text consistently integrates mathematical concepts with real applications in order to enhance student intuition and understanding symbolic algebraic graphical numerical and verbal skills are continually reinforced throughout when introducing mathematical ideas the text moves from the concrete to the abstract rather than the reverse it is the

authors philosophy that learning is increased when students can relate a concept to something in their lives hence mathematical concepts are often introduced through applications that help make the mathematics real to students students see the importance of a topic from a practical and intuitive point of view with models and applications playing a central part in the learning process

key message gary rockswold and terry kriegers focus on teaching algebra in context giving readers realistic and convincing answers to the perennial question when will i ever use this the authors consistent use of real data graphs and tables throughout the examples and exercise sets gives meaning to the numbers and equations as readers encounter them this new edition further enhances rockswold and kriegers focus on math in the real world with new features and updated applications to engage today s readers key topics real numbers and algebra linear functions and models linear equations and inequalities systems of linear equations polynomial expressions and functions rational expressions and functions radical expressions and functions quadratic functions and equations exponential and logarithmic functions conic sections sequences and series market for all readers interested in algebra

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