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This chart represents important events in astronomy, like discoveries and inventions that have impacted astronomy through the ages: 2000 B.C. According to legend, two Chinese astronomers are executed for not predicting an eclipse and for being drunk as it happened. 129 B.C. Hipparchos completes the first catalog of the stars.

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<p>When astronomers today look up at the night sky

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they picture a spectacular and infinite universe--full of pulsars, quasars, and black holes and ruled by arcane laws of space and time. Once, ancient astronomers looked up and saw only points of light tracing calm movements across the heavens. But they too were moved to wonder about the meaning of what they saw. In *Astronomy through the ...*

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from the first endeavours of the ancients to the current developments in research enabled by cutting edge technological advances. Free of mathematics and complex graphs, the book nevertheless explains deep concepts of space and time, of relativity and quantum mechanics, and of origin and nature of the universe. It conveys not only the intrinsic fascination of the subject, but also the human side and the scientific method as practised by Kepler, defined and elucidated by Galileo, and then demonstrated by Newton.

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In 1609 Galileo first used his telescope to kick start the science of observational astronomy - an event that proved to be of enormous historic, scientific, and cultural importance. Galileo and 400 Years of

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Telescopic Astronomy will feature the life and achievements of Galileo, around which has pivoted the story of four centuries of telescopic astronomy. The book will detail how astronomy has progressed through four centuries and contain glimpses of future space research and astronomy goals. Uniquely, interwoven with the text will be a range of practical projects for backyard astronomers in which to participate, projects that serve to illustrate many of Galileo's scientific discoveries.

Since the dawn of humankind, people have looked

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upward to the heavens and tried to understand them. This encyclopedia takes you on an expedition through time and space to discover our place in the universe. We invite you to take a journey through the wonders of the universe. Explore the cosmos, from planets to black holes, the Big Bang, and everything in-between! Get ready to discover the story of the universe one page at a time! This educational book for young adults will launch you on a wild trip through the cosmos and the incredible discoveries throughout history. Filled to the brim with beautifully illustrated flowcharts, graphics, and jargon-free language, The Astronomy Book breaks down hard-to-grasp concepts to guide you in understanding almost 100 big astronomical ideas. Big

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The Telescope Revolution 1550 - 1750 - Uranus to Neptune 1750 - 1850 - The Rise of Astrophysics 1850 - 1915 - Atom, Stars, And Galaxies 1915 - 1950 - New Windows on The Universe 1950 - 1917 - The Triumph of Technology 1975 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Astronomy Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand.

Shortlisted: A Young Adult Library Services Association Outstanding Books for the College Bound and Lifelong Learners list selection A Mom's Choice Awards® Honoring Excellence Gold Seal of Approval

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for Young Adult Books A Parents' Choice Gold Award winner

Well-balanced, carefully reasoned study covers such topics as Ptolemaic theory, work of Copernicus, Kepler, Newton, Eddington's work on stars, much more. Illustrated. References.

The History and Practice of Ancient Astronomy combines new scholarship with hands-on science to bring readers into direct contact with the work of ancient astronomers. While tracing ideas from ancient Babylon to sixteenth-century Europe, the book places its greatest emphasis on the Greek period, when

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astronomers developed the geometric and philosophical ideas that have determined the subsequent character of Western astronomy. The author approaches this history through the concrete details of ancient astronomical practice. Carefully organized and generously illustrated, the book can teach readers how to do real astronomy using the methods of ancient astronomers. For example, readers will learn to predict the next retrograde motion of Jupiter using either the arithmetical methods of the Babylonians or the geometric methods of Ptolemy. They will learn how to use an astrolabe and how to design sundials using Greek and Roman techniques. The book also contains supplementary exercises and patterns for making some

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working astronomical instruments, including an astrolabe and an equatorium. More than a presentation of astronomical methods, the book provides a critical look at the evidence used to reconstruct ancient astronomy. It includes extensive excerpts from ancient texts, meticulous documentation, and lively discussions of the role of astronomy in the various cultures. Accessible to a wide audience, this book will appeal to anyone interested in how our understanding of our place in the universe has changed and developed, from ancient times through the Renaissance.

The invention of the telescope at the dawning of the 17th century has revolutionized humanity's

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understanding of the Universe and our place within it. This book traces the development of the telescope over four centuries, as well as the many personalities who used it to uncover brand-new revelations about the Sun, Moon, planets, stars and distant galaxies. Starting with early observers such as Thomas Harriot, Galileo, Johannes Hevelius, Giovanni Domenico Cassini, Robert Hooke and Christian Huygens, the book explores how these early observers arrived at essentially correct ideas concerning the objects they studied. Moving into the 18th and 19th centuries, the author describes the increasing sophistication of telescopes both large and small, and the celebrated figures who used them so productively, including the Herschels, Charles Messier,

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William Lassell and the Earls of Rosse. Many great discoveries were also made with smaller instruments when placed in the capable hands of the Struve dynasty, F.W. Bessel, Angelo Secchi and S.W Burnham, to name but a few. Nor were all great observers of professional ilk. The book explores the contributions made by the 'clerical astronomers,' William Rutter Dawes, Thomas William Webb, T.E.R Philips and T.H.E.C Espin, as well as the lonely vigils of E.E. Barnard, William F. Denning and Charles Grover. And in the 20th century, the work of Percival Lowell, Leslie Peltier, Eugene M. Antoniadi, Clyde Tombaugh, Walter Scott Houston, David H. Levy and Sir Patrick Moore is fully explored. Generously illustrated throughout, this

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treasure trove of astronomical history shows how each observer's work led to seminal developments in science, and providing key insights into how we go about exploring the heavens today.

From its beginnings in Babylonian and Egyptian theories, through its flowering into revolutionary ideas such as heliocentricity, astronomy proved a source of constant fascination for the philosophers of antiquity. In ancient Greece, the earliest written evidence of astronomical knowledge appeared in the poems of Homer and Hesiod. In the present work, first published in 1932, Sir Thomas Little Heath (1861-1940) collects some of the most notable essays and discussions of

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astronomical theory by Greek astronomers and mathematicians, presenting them in English translation for the modern reader. With chronological coverage, Heath's book features a thorough introduction, a doxography of what ancient authors said about the earliest theorists and longer excerpts exploring fundamental ideas. Among the pieces are extracts from Plato's Republic and Ptolemy's work on the impossibility of a moving Earth, alongside material from Aristotle, Euclid, Strabo, Plutarch and others.

A treasury of 125 archival articles covers more than a century of scientific breakthroughs, setbacks and mysteries and includes pieces by Pulitzer Prize-winning

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writers, includes Malcolm W. Browne on antimatter, James Glanz on string theory and George Johnson on quantum physics.

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