

SOURCE BOOK IN ASTRONOMY
1900-1950

Source In Astronomy 1900 1950

Giora Shaviv



Source In Astronomy 1900 1950:

Source Book in Astronomy, 1900-1950. H Shapley, Editor. [With Illustrations.]. Harlow SHAPLEY,1960 Source Book in Astronomy Harlow Shapley,1969 **A Source Book in Medieval Science** Edward Grant,1974 This Source Book explores a millennium of European scientific thought accompanied by critical commentary and annotation nearly half the selections appear for the first time in the vernacular Representing science in the medieval sense selections include alchemy astrology logic and theology as well as mathematics physics and biology *Sources Book in Astronomy* Harlow Shapley,1969 **A Source Book in Mathematics, 1200-1800** D. J. Struik, *A Source Book in Geography* George Kish,1978 Presents geographical writings chronologically arranged with a wealth of material from non Western sources Each section is introduced by the editor **Archives of the Universe** Marcia Bartusiak,2010-05-19 An unparalleled history of astronomy presented in the words of the scientists who made the discoveries Here are the writings of Copernicus Galileo Kepler Newton Halley Hubble and Einstein as well as that of dozens of others who have significantly contributed to our picture of the universe From Aristotle s proof that the Earth is round to the 1998 paper that posited an accelerating universe this book contains 100 entries spanning the history of astronomy Award winning science writer Marcia Bartusiak provides enormously entertaining introductions putting the material in context and explaining its place in the literature Archives of the Universe is essential reading for professional astronomers science history buffs and backyard stargazers alike **The Synthesis of the Elements** Giora Shaviv,2012-04-13 This book describes the origins and evolution of the chemical elements we and the cosmos are made of The story starts with the discovery of the common elements on Earth and their subsequent discovery in space How do we learn the composition of the distant stars How did progress in quantum theory nuclear physics spectroscopy stellar structure and evolution together with observations of stars converge to provide an incredibly detailed picture of the universe How does research in the micro world explain the macro world How does progress in one affect the other or lack of knowledge in one inhibit progress in the other In short Shaviv describes how we discovered the various pieces of the jigsaw that form our present picture of the universe and how we sometimes put these in the wrong place before finding in the right one En route we meet some fascinating personalities and learn about heated controversies Shaviv shows how science lurched from one dogma to the next time and again shattering much of what had been considered solid knowledge until eventually a stable understanding arose Beginning with generally accepted science the book ends in today s terra incognita of nuclear physics astrophysics and cosmology A monumental work that will fascinate scientists philosophers historians and lay readers alike *Astrophysics of the Interstellar Medium* Walter J. Maciel,2013-01-11 The space between the stars contains a large diversity of objects in which physical processes occur that are fundamental to the structure and evolution of galaxies This book offers the reader a basic knowledge of these processes and presents simple numeric estimates of the main quantities relevant to the interstellar medium The main objects that constitute the interstellar space are

described but the emphasis of the book lies in the physical processes occurring in these objects which may also occur in other astrophysical environments The book is directed tor graduate as well as advanced undergraduate students of physics and astrophysics Dictionary of World Biography: The 20th century, O-Z Frank Northen Magill,Christina J. Moose,Alison Aves,1999-11 Each volume of the Dictionary of World Biography contains 250 entries on the lives of the individuals who shaped their times and left their mark on world history This is not a who s who Instead each entry provides an in depth essay on the life and career of the individual concerned Essays commence with a quick reference section that provides basic facts on the individual s life and achievements The extended biography places the life and works of the individual within an historical context and the summary at the end of each essay provides a synopsis of the individual s place in history All entries conclude with a fully annotated bibliography **Catalog of the United States Geological Survey Library** U.S. Geological Survey Library,1974 *Modern Theories of the Universe* Michael J. Crowe,1994-01-01 This book provides an introduction to the fundamentals of stellar astronomy a history of astronomy and an account of how the science of astronomy challenged traditional philosophical and theological beliefs Throughout the text are readings from the writings of scientists who contributed most significantly to the development of astronomy **A Concise History of Solar and Stellar Physics** Jean-Louis Tassoul,Monique Tassoul,2014-10-05 This book provides a comprehensive overview of the history of ideas about the sun and the stars from antiquity to modern times Two theoretical astrophysicists who have been active in the field since the early 1960s tell the story in fluent prose About half of the book covers most of the theoretical research done from 1940 to the close of the twentieth century a large body of work that has to date been little explored by historians The first chapter which outlines the period from about 3000 B C to 1700 A D shows that at every stage in history human beings have had a particular understanding of the sun and stars and that this has continually evolved over the centuries Next the authors systematically address the immense mass of observations astronomy accumulated from the early seventeenth century to the early twentieth The remaining four chapters examine the history of the field from the physicists perspective the emphasis being on theoretical work from the mid 1840s to the late 1990s from thermodynamics to quantum mechanics from nuclear physics and magnetohydrodynamics to the remarkable advances through to the late 1960s and finally to more recent theoretical work Intended mainly for students and teachers of astronomy this book will also be a useful reference for practicing astronomers and scientifically curious general readers *Proceedings and Addresses of the American Philosophical Association* American Philosophical Association,1977 List of members in v 1 **The 20th Century O-Z** Frank N. Magill,2013-05-13 Each volume of the Dictionary of World Biography contains 250 entries on the lives of the individuals who shaped their times and left their mark on world history This is not a who s who Instead each entry provides an in depth essay on the life and career of the individual concerned Essays commence with a quick reference section that provides basic facts on the individual s life and achievements The extended biography places the life and works of the individual within an

historical context and the summary at the end of each essay provides a synopsis of the individual's place in history. All entries conclude with a fully annotated bibliography.

Astrophysical Formulae Kenneth R. Lang, 2013-06-29 This second edition contains corrections of misprints and errors found by the author as well as those suggested during the Russian translation of the first printing. The Russian editors and translators who kindly supplied this material include V E CHERTOPRUD A G DOROSHKEVICH V L HOHLOVA M Yu KHLOPOV D K NADIOZHIN L M ZERNOI I G PERSIANTSEV L A POKROVSKII A V ZASOV and Yu K ZEMTSOV. Supplemental references for the period 1974 to 1980 have also been added as appendix where they are included under the headings of general references and specific references for each chapter. Although specialized references come mainly from American journals, references to reviews and books are also included to help guide the reader to other sources. The author encourages suggestions for additions and corrections to possible future editions of this volume.

KENNETH R LANG Department of Physics Tufts University Medford Massachusetts January 1980 Preface This book is meant to be a reference source for the fundamental formulae of astrophysics. Wherever possible the original source of the material being presented is referenced together with references to more recent modifications and applications. More accessible reprints and translations of the early papers are also referenced. In this way the reader is provided with the often ignored historical context together with an orientation to the more recent literature.

The Story of Western Science Susan Wise Bauer, 2015-04-27 A riveting road map to the development of modern scientific thought. In the tradition of her perennial bestseller *The Well Educated Mind*, Susan Wise Bauer delivers an accessible, entertaining, and illuminating springboard into the scientific education you never had. Far too often public discussion of science is carried out by journalists, voters, and politicians who have received their science secondhand. *The Story of Western Science* shows us the joy and importance of reading groundbreaking science writing for ourselves and guides us back to the masterpieces that have changed the way we think about our world, our cosmos, and ourselves. Able to be referenced individually or read together as the narrative of Western scientific development, the book's twenty-eight succinct chapters lead readers from the first science texts by Hippocrates, Plato, and Aristotle through twentieth-century classics in biology, physics, and cosmology. *The Story of Western Science* illuminates everything from mankind's earliest inquiries to the butterfly effect, from the birth of the scientific method to the rise of earth science and the flowering of modern biology. Each chapter recommends one or more classic books and provides entertaining accounts of crucial contributions to science, vivid sketches of the scientist-writers, and clear explanations of the mechanics underlying each concept. *The Story of Western Science* reveals science to be a dramatic undertaking practiced by some of history's most memorable characters. It reminds us that scientific inquiry is a human pursuit, an essential, often deeply personal, sometimes flawed, frequently brilliant way of understanding the world. *The Story of Western Science* is an entertaining and unique synthesis. *Times Higher Education*: a fluidly written narrative that celebrates the inexorable force of human curiosity. *Wall Street Journal*: and a bright, informative resource for readers seeking to

understand science through the eyes of the men and women who shaped its history Kirkus Previously published as *The Story of Science* **Man Discovers the Galaxies** Richard Berendzen, Richard Cullen Hart, Daniel Seeley, 1984 *Man Discovers the Galaxies* describes the development of galactic theories and models of the stellar system from 1900 to 1940 It is written in an interesting and lucid style lavishly illustrated with photographs diagrams *The Publishers' Trade List Annual*, 1978

Mapping the Spectrum Klaus Hentschel, 2002 Ever since the boom of spectrum analysis in the 1860s spectroscopy has become one of the most fruitful research technologies in analytic chemistry physics astronomy and other sciences This book is the first in depth study of the ways in which various types of spectra especially the sun's Fraunhofer lines have been recorded displayed and interpreted The book assesses the virtues and pitfalls of various types of depictions including hand sketches woodcuts engravings lithographs and from the late 1870s onwards photomechanical reproductions The material of a 19th century engraver or lithographer the daily research practice of a spectroscopist in the laboratory or a student's use of spectrum posters in the classroom all are looked at and documented here For pioneers of photography such as John Herschel or Hermann Wilhelm Vogel the spectrum even served as a prime test object for gauging the color sensitivity of their processes This is a broad contextual portrayal of the visual culture of spectroscopy in the 19th and early 20th centuries The illustrations are not confined to spectra they show instruments laboratories people at work and plates of printing manuals The result is a multifaceted description focusing on the period from Fraunhofer up to the beginning of Bohr's quantum theory A great deal of new and fascinating material from two dozen archives has been included A must for anyone interested in the history of modern science or in research practice using visual representations

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