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Jean-Louis Tassoul, Monique Tassoul



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The phenomenal growth of modern astronomy including the invention of the coronagraph and major developments in telescope design and photographic technique is unparalleled in many centuries Theories of relativity the concept and measurement of the expanding universe the location of sun and planets far from the center of the Milky Way the exploration of the interiors of stars the pulsation theory of Cepheid variation and investigations of interstellar space have profoundly altered the astronomer s approach These fundamental discoveries are reported in papers by such eminent scientists as Albert Einstein Sir Arthur S Eddington Henry Norris Russell Sir James Jeans Meghnad Saha Otto Struve Fred L Whipple Bernard Lyot Jan H Oort and George Ellery Hale The Source Book s 69 contributions represent all fields of astronomy For example there are reports on the equivalence of mass and energy $E = mc^2$ of the special theory of relativity building the 200 inch Palomar telescope the scattering of galaxies suggesting a rapidly expanding universe stellar evolution and the Big Bang and Steady State theories of the universe s origin **Sources Book in Astronomy** Harlow Shapley, 1969 A Source Book in Mathematics, 1200-1800 D. J. Struik, **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 **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 *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 *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

A Concise History of Solar and Stellar Physics Jean-Louis Tassoul, Monique Tassoul, 2014-11-28 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

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Table of Contents Source In Astronomy 1900 1950

1. Understanding the eBook Source In Astronomy 1900 1950
 - The Rise of Digital Reading Source In Astronomy 1900 1950
 - Advantages of eBooks Over Traditional Books
2. Identifying Source In Astronomy 1900 1950
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Source In Astronomy 1900 1950
 - User-Friendly Interface
4. Exploring eBook Recommendations from Source In Astronomy 1900 1950
 - Personalized Recommendations
 - Source In Astronomy 1900 1950 User Reviews and Ratings
 - Source In Astronomy 1900 1950 and Bestseller Lists
5. Accessing Source In Astronomy 1900 1950 Free and Paid eBooks
 - Source In Astronomy 1900 1950 Public Domain eBooks
 - Source In Astronomy 1900 1950 eBook Subscription Services
 - Source In Astronomy 1900 1950 Budget-Friendly Options
6. Navigating Source In Astronomy 1900 1950 eBook Formats

- ePub, PDF, MOBI, and More
- Source In Astronomy 1900 1950 Compatibility with Devices
- Source In Astronomy 1900 1950 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Source In Astronomy 1900 1950
 - Highlighting and Note-Taking Source In Astronomy 1900 1950
 - Interactive Elements Source In Astronomy 1900 1950
- 8. Staying Engaged with Source In Astronomy 1900 1950
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Source In Astronomy 1900 1950
- 9. Balancing eBooks and Physical Books Source In Astronomy 1900 1950
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Source In Astronomy 1900 1950
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Source In Astronomy 1900 1950
 - Setting Reading Goals Source In Astronomy 1900 1950
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Source In Astronomy 1900 1950
 - Fact-Checking eBook Content of Source In Astronomy 1900 1950
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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