

Handbook of

# Isotopes in the Cosmos

Hydrogen to Gallium

Donald Clayton



		$^{26}\text{Al}$	$^{27}\text{Al}$	
		$^{24}\text{Mg}$	$^{25}\text{Mg}$	$^{26}\text{Mg}$
	$^{22}\text{Na}$	$^{23}\text{Na}$		
$^{20}\text{Ne}$	$^{21}\text{Ne}$	$^{22}\text{Ne}$		



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## **Handbook Of Isotopes In The Cosmos:**

**Handbook of Isotopes in the Cosmos** Donald Clayton, 2007-08-16 Each naturally occurring isotope contributes to the history of matter by having its own special role in cosmic evolution This volume elucidates the origins of our material world by looking at the abundance of the elements and their isotopes and how this is interpreted within the theory of nucleosynthesis Each isotope of elements from Hydrogen to Gallium is covered in detail The book will be suitable for astronomers physicists chemists geologists and planetary scientists and contains a glossary of essential technical terms

**Handbook of Isotopes in the Cosmos** Donald Clayton, 2003 An information resource about the isotopes and their place in the cosmos      **Stable Isotope Ecology** Brian Fry, 2007-01-15 A solid introduction to stable isotopes that can also be used as an instructive review for more experienced researchers and professionals The book approaches the use of isotopes from the perspective of ecological and biological research but its concepts can be applied within other disciplines A novel step by step spreadsheet modeling approach is also presented for circulating tracers in any ecological system including any favorite system an ecologist might dream up while sitting at a computer The author's humorous and lighthearted style painlessly imparts the principles of isotope ecology The online material contains color illustrations spreadsheet models technical appendices and problems and answers      [Comets III](#) Karen J. Meech, Michael R. Combi, Dominique Bockelée-Morvan, Sean N. Raymond, Michael Zolensky, 2024-12-17 Comets III brings a comprehensive update to the latest breakthroughs in comet science over the last twenty years and showcases how recent space missions and advancements in telescopic observations have revolutionized our understanding of these celestial bodies With the contributions of more than eighty authors spanning twenty five chapters Comets III investigates the early solar system origins of comets and the clues provided by the composition and distribution of their present population for their long term dynamical evolution and interrelations with other members of the solar system Organized thematically each section is designed to enable connections across disciplinary boundaries in both planetary science and planetary formation astrophysics This comprehensive volume explores recent advancements in space missions telescopic observations and robotic surveys providing new understandings of the origins and dynamics of comets Intended for both researchers and students Comets III offers insights into unresolved questions and sets the stage for future advancements      [The Elements](#) ,      **Encyclopedia of Geology** , 2020-12-16 Encyclopedia of Geology Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the

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working in the field of nuclear astrophysics      Astronomy with Radioactivities Roland Diehl, Dieter H. Hartmann, Nikos Prantzos, 2010-10-01 This book introduces the reader to the field of nuclear astrophysics i.e. the acquisition and reading of measurements on unstable isotopes in different parts of the universe. The authors explain the role of radioactivities in astrophysics, discuss specific sources of cosmic isotopes and in which special regions they can be observed. More specifically, the authors address stars of different types, stellar explosions which terminate stellar evolutions and other explosions triggered by mass transfers and instabilities in binary stars. They also address nuclear reactions and transport processes in interstellar space in the contexts of cosmic rays and of chemical evolution. A special chapter is dedicated to the solar system which even provides material samples. The book also contains a description of key tools which astrophysicists employ in those particular studies and a glossary of key terms in astronomy with radioactivities      *McGraw-Hill Yearbook of Science and Technology, 2010* McGraw-Hill Education, 2010-01-12 Includes coverage of forefront fields such as cell and molecular biology, environmental science, genetics, information technology, nanotechnology, chemistry and theoretical physics. An extensive subject index makes finding information fast and easy. Features numerous cross references to the McGraw Hill Encyclopedia of Science Technology and bibliographies of key literature after each article. 250 images, diagrams and tables enhance the text      **Nucleosynthesis and Chemical Evolution of Galaxies** Bernard Ephraim Julius Pagel, 2009-01-15 A lucid introduction for advanced undergraduates and graduate students and an authoritative overview for researchers and professional scientists      Astrophysics ,      Prebiotic Chemistry and Life's Origin Michele Fiore, 2022-06-29 How life originated from the inanimate mixture of organic and inorganic compounds on the primordial earth remains one of the great unknowns in science. This origin of life or abiogenesis continues to be examined in the context of the conditions and materials required for natural life to have begun on Earth both theoretically and experimentally. This book provides a broad but in depth analysis of the latest discoveries in prebiotic chemistry from the microscopic to the macroscopic scale utilising experimental insight to provide a bottom up approach to plausibly explaining how life arose. With contributions from global leaders, this book is an ideal reference for postgraduate students and a single source of comprehensive information on the latest technical and theoretical advancements for researchers in a variety of fields from astrochemistry and astrophysics to organic chemistry and evolution      Stardust from Meteorites Maria Lugaro, 2005 The first book specifically dedicated to the 20 year old study of presolar stellar grains. Contains basic background material together with the most recent discoveries. Presents a simple but comprehensive description of the latest stellar evolution and nucleosynthesis theories. Quotes most of the relevant bibliography related to stellar grains and hence can be used as a source of reference      Information Bulletin International Astronomical Union, 2002      **Isotopic fractionation study towards massive star-forming regions across the Galaxy** Laura Colzi, 2022 One of the most important tools to investigate the chemical history of our Galaxy and our own Solar System is to measure the isotopic fractionation of chemical elements. In the present study, new astronomical

observations devoted to the study of hydrogen and nitrogen fractionation D/H and  $^{14}\text{N}/^{15}\text{N}$  ratios of molecules towards massive star forming regions in different evolutionary phases have been presented. Moreover, a new detailed theoretical study of carbon fractionation  $^{12}\text{C}/^{13}\text{C}$  ratios has been done. One of the main results was the confirmation that the  $^{14}\text{N}/^{15}\text{N}$  ratio increases with the galactocentric distance as predicted by stellar nucleosynthesis. Galactic chemical evolution models. This work gives new important inputs on the understanding of local chemical processes that favor the production of molecules with different isotopes in star forming regions. Hydrogen Technologies Olayinka I. Ogunsola, Olubunmi M.

Ogunsola, 2024-10-14. Offering a wide range coverage, this book provides fundamentals as well as the applied science and technology involved in the whole hydrogen value chain including production, storage, transportation, and utilization. It discusses some challenges and opportunities for hydrogen to address energy demand and climate change issues. Features: Discusses various technology pathways for manufacturing producing hydrogen both directly i.e. water splitting and indirectly i.e. gas conversion of coal and biomass. Covers techniques and technologies for transporting gaseous, liquid, solid, and other forms of hydrogen including mobile and stationary modes as well as small and large scale forms of transportation. Offers techniques and technologies for storing hydrogen with emphasis on materials and physical and chemical characteristics. Describes hydrogen utilization in energy, energy conversion, industrial, chemical, industrial, agricultural, and transportation sectors. This book is aimed at engineers and scientists working in the disciplines of energy, chemical, environmental, petroleum, petrochemical, and mechanical engineering. Period 1 Elements, **Chemical Elements**,

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