

PHYSICAL SCIENCE chapter 1: THE ORIGIN OF ELEMENTS



The Origin of Elements

1.1 The Composition of the Universe

Element ► substance made from one type of atom

☆ The universe is composed of 92 elements, beginning from the lightest hydrogen to the heaviest uranium.

☆ 73% of the mass of the universe is hydrogen, helium makes up about 25%, and the others 2%- a small portion of the universe make up most of the atoms present in our body and Earth

low-mass elements ► hydrogen & helium- formed in the hot, dense conditions of the birth of the universe itself

Nuclear reactions can describe the birth, life, and death of the stars.

1.2 The Nucleosynthesis Epoch

Nucleosynthesis

► Nucleo meaning nucleus; synthesis meaning putting together

► defined as the formation of elements by combining the simple nuclei or atomic particles by nuclear reaction with the help of extremely hot temperature and pressure

1.2.1 The First 3 Minutes of the Big Bang

About 100 seconds after the Big Bang started, nuclear reactions began to form elements through the collision of protons and neutrons. Protons and neutrons can fuse to form isotopes of hydrogen, such as deuterium, through this nuclear reaction:

Physical Science Chapter 1

Ansel Alphonso Knowlton



Physical Science Chapter 1:

Introduction to Physical Science Chapter 1 Nature of Science Chp Res 634 2002 McGraw-Hill Staff,2001-08-01 **Holt Science Spectrum Physical Science Chapter 1 Resource File: Introduction to Science** Holt Rinehart & Winston,2008

Physical Science Russell Kuhtz,2016-12-09 Physical science Jay M. Pasachoff,LeVon Balzer,Phyllis L. Goodson,Ann Collins,1983 **Introduction to Physical Science** Alfred Payson Gage,1902 Physics chemistry textbook authorized for use in Saskatchewan schools 1895 1907 Langley s thesis Tables 9 10 11 With brief preface on methods of teaching elementary physics Has chapters on fluid pressure dynamics heat sound light electrostatics and electro kinetics **Physical Science - Chemistry Split with Online Learning Center Password Card (Chapters 1 And 8 - 13)** Bill W. Tillery,Tillery Bill,2004-01-09 **Complete Homeschool Social Science** Terri Raymond,2015-03-05 This book is a collection of Home School Brews bestselling social science series It covers grades 1 to 6 Each book may also be purchased separately *Émilie Du Châtelet and the Foundations of Physical Science* Katherine Brading,2019-01-15 The centerpiece of milie Du Ch telet s philosophy of science is her Foundations of Physics first published in 1740 The Foundations contains epistemology metaphysics methodology mechanics and physics including such pressing issues of the time as whether there are atoms the appropriate roles of God and of hypotheses in scientific theorizing how if at all bodies are capable of acting on one another and whether gravity is an action at a distance force Du Ch telet sought to resolve these issues within a single philosophical framework that builds on her critique and appraisal of all the leading alternatives Cartesian Newtonian Leibnizian and so forth of the period The text is remarkable for being the first to attempt such a synthetic project and even more so for the accessibility and clarity of the writing This book argues that Du Ch telet put her finger on the central problems that lay at the intersection of physics and metaphysics at the time and tackled them drawing on the most up to date resources available It will be a useful source for students and scholars interested in the history and philosophy of science and in the impact of women philosophers in the early modern period **An Introduction to Physical Science** Frederick Hutton Getman,1909 *The Grammar of Science* Karl Pearson,1911 **A Text-book of Physics** William Watson,1905 *Gaither's Dictionary of Scientific Quotations* Carl C. Gaither,Alma E. Cavazos-Gaither,2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither s Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also

provides new thematic categories Physics for College Students Ansel Alphonso Knowlton,1928 *Hybrid Epistemology as a Solution to Reductionism-Physicalism Issues* Philippos Afxentiou,2024-05-24 This book provides an introspection into overlooked aspects of physical science overrated standards an Aristotelian perspective and underappreciated paradigms Combining two works it explores physical science describing the world scientifically and consistently through two themes First it shows that while an experimental hypothesis approach succeeds due to the availability of the physical world other strategies exist The author proposes one approach focused on physical science s extreme prioritization of certain goals which may limit its exploration Some overlooked ideas are thoroughly detailed Second it re examines Aristotelian physics contrasting it with modern science and analyzing its wholesale replacement Beyond just comparing it identifies Aristotelian virtues citing recent supporting works It illustrates an unfinished pre modern science paradigm Overall readers gain a complete understanding of the hard science paradigm including its hidden assumptions exaggerations evolutionary myths and options for innovation The study sheds new light on hard science s modern pre eminence grounding analysis in principles not achievements This clarifies physical studies roots each paradigm s exaggerations and oversimplifications allowing new approaches **The Chemical News and Journal of Physical Science** ,1907 **The Changeful Earth** Grenville Arthur James Cole,1911 **Focus on physical science** Charles H. Heimler,1989 **Bulletin** ,1920 **Sessional Papers** British Columbia. Parliament,1919 **Chemical News and Journal of Physical Science** ,1908

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