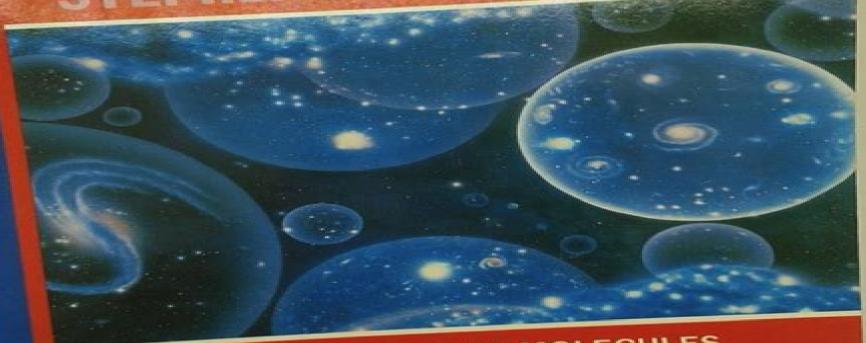
CHEMICAL EVOLUTION

TEPHEN F. MASON



ORIGINS OF THE ELEMENTS, MOLECULES AND LIVING SYSTEMS

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This book is a delight ... a state-of-the-art survey of the major fields that have developed out of 19th century chemistry ... Professor Mason has succeeded brilliantly Chemistry in Britain

Stephen Finney Mason

Chemical Evolution. Origin of the Elements, Molecules, and Living Systems. [Mit Fig., Diagr. U. Tab.] Stephen Finney Chemical Evolution Stephen Finney Mason, 1992 Recent accounts of the chemical history of the universe Mason, 1991 have tended to emphasize either the inorganic or the organic aspects of chemical evolution looking for example at the nucleosynthesis of the chemical elements on the one hand or the origin and development of living organisms on theother This book takes the chemistry as the central science of all materials inorganic and organic at the molecular level and brings together both aspects in a clear account of the development of ideas of chemical evolution. This fascinating survey covers the generation of the light chemical elements in the Big Bang their transformation into heavier elements in the stars the origin of the solar system and the molecular evolution of minerals and organisms on the earth Spanning the range from nuclear chemistry andradioactivity through mineral and organic chemistry to biochemistry and molecular biology it adopts a historical approach to show how recent research has modified and extended earlier conclusions and conjectures The book is essential reading for all those interested in the development ofscientific ideas on the origins of the universe chemical matter and life on earth Chemical Evolution: Origin Of Life Julian Chela-Flores, PhD, Cyril Ponnamperuma, PhD, 1992-12-31 This book addresses some important open questions in this interdisciplinary field of research In spite of its broad scope ranging from the earliest evidence of life on earth to the search for extraterrestrial intelligence the main focus is on chemical evolution Once the macromolecules of life were formed the evolution of the earliest life forms enhanced the importance of chirality This led to the highly asymmetric environment of the macromolecules of the living cell the hallmark of life itself The subject of chirality in particular is discussed in depth the status of the weak force as the only true chiral influence is presented A substantial number of papers review both the theoretical as well as the experimental basis of the origin of biochirality A second broad area discussed in detail is the RNA world Some successes of this hypothesis are highlighted the hierarchy of previous evolutionary stages leading to the origin of life such as the pyrophosphate world are considered The question is raised whether useful hints may still be inferred from molecular fossils existing in contemporary cells Contents The Origin Evolution and Distribution of Life in the Universe C Ponnamperuma Chemical Origin and Early Evolution of Biological Energy Conversion H Baltscheffsky Phosphate in Models for Chemical Evolution G Arrhenius B Gedulin and Mojzsis Evolution in an RNA World P Schuster Small Pathogenic RNAs of Plants Living Fossils of the RNA World T O Diener The Weak Force and the Origin of Life A.J. MacDermott The Origin of Chirality the Role of Phase Transitions and Their Induction in Amino Acids A Salam Spontaneous Regulating Mechanisms That May Have Led to the Origin of Life J Chela Flores Chirality and the Origin of Life R Navarro Gonzalez R K Khanna and C Ponnamperuma Search for Phase Transitions Changing Molecular Chirality A Figureau E Duval and A Boukenter Theoretical and Experimental Studies on the Possibility of Chirality Dependent Time Direction in Molecules A S Garay Extraterrestrial Intelligences J Heidmann Discussion Sessions

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nuclear particles In chemical science chirality is generally associated with a single molecule or group of molecules which symmetry properties belonging to the Cn or Dn point groups with the simplest example of sp3 carbon atom bonded to four different substituents. The dynamic processes of chirality generation modulation transfer amplification etc are termed chirogenesis This is a fast growing and interdisciplinary field of research which is widely seen in many natural systems such as DNA double helix the secondary alpha helix structure of proteins lipid membranes saccharides heme proteins and other biological molecular objects and various artificial systems It is of prime importance not only for fundamental science but also for a number of practical applications in such areas as pharmacology and agrochemistry perfumery and food industry materials and polymer sciences enantioselective catalysis and nonlinear optics nanoscience and nanotechnology molecular devices and chemical sensors and others Therefore understanding the mechanisms and various influencing factors is of particular significance for smart control and further effective application of chirogenesis in chemistry GEOPHYSICS AND GEOCHEMISTRY - Volume III Jan Lastovicka, 2009-11-28 Geophysics and Geochemistry is a component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Geophysics and Geochemistry are two closely intertwined and collaborating branches of Earth's sciences The content of the Theme on Geophysics and Geochemistry is organized with state of the art presentations covering eight main topics Foundations of Geophysics and Geochemistry Geophysical Systems Seismology and Volcanology Geomagnetism and Geoelectricity Aeronomy and Magnetosphere Gravimetry Geochemistry and Cosmochemistry Planetology Comparative Planetology of Earth like Planets and Astrobiology which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following a wide spectrum of audiences from the merely curious to those seeking in depth knowledge University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs Frontiers of Life J. Thanh Van Tran, 1992

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