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Stellar nucleosynthesis is the creation (nucleosynthesis) of chemical elements by nuclear fusion reactions within stars. Stellar nucleosynthesis has occurred since the original creation of hydrogen, ...

Stellar nucleosynthesis

Within a few minutes of the big bang, the light elements helium, deuterium and lithium were also formed in a process called big bang nucleosynthesis ... into their chemical evolution at the ...

Your smile's cosmic history: we discovered the origin of fluoride in early galaxies

Well organized, beginning with the basic physics (nuclear structure, radioactivity, nucleosynthesis ... then the applications to the evolution of the earth and other parts of the solar system later.' ...

Principles of Radiometric Dating

is the theory of primordial nucleosynthesis put forward by Alpher and Gamow (Gamow added Bethe's name as a joke) in the late 1940s. The theory attempted to explain nuclear abundances by a single ...

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Look at the ingredients on a tube of toothpaste and you will probably read something like " contains sodium fluoride " . Fluoride, as you probably know, is important for healthy teeth. It ...

A lucid, wide-ranging graduate textbook on the topical subject of galactic chemical evolution - by a pioneer of the field.

The distribution of elements in the cosmos is the result of many processes, and it provides a powerful tool to study the Big Bang, the density of baryonic matter, nucleosynthesis and the formation and evolution of stars and galaxies. Covering many exciting topics in astrophysics and cosmology, this textbook, by a pioneer of the field, provides a lucid and wide-ranging introduction to the interdisciplinary subject of galactic chemical evolution for advanced undergraduates and graduate students. It is also an authoritative overview for researchers and professional scientists. This new edition includes results from recent space missions and new material on abundances from stellar populations, nebular analysis, and meteoric isotopic anomalies, and abundance analysis of X-ray gas. Simple derivations for key results are provided, together with problems and helpful solution hints, enabling the student to develop an understanding of results from numerical models and real observations.

This book is based partly on a. lecture course given at the University of Tri este, but mostly on my own research experience in the field of galactic chemical evolution. The subject of galactic chemical evolution was started and developed by Beat rice Tinsley in the seventies and now is a flourishing subject. This book is dedi cated to the chemical evolution of our Galaxy and aims at giving an up-to- date review of what we have learned since Tinsley's pioneering efforts. At the time of writing, in fact, books of this kind were not available with the exception of the excellent book by Bernard Pagel on "Nucleosynthesis and Chemical Evolution of Galaxies" (Cambridge University Press, 1997), and the subject of galactic chem ical evolution has appeared only as short chapters in books devoted to other subjects. Therefore, I felt that a book of this kind could be useful. The book summarizes the observational facts which allow us to reconstruct the chemical history of our Galaxy, in particular the abundances in stars and in terstellar medium; in the last decade, a great deal of observational work, mostly abundance determinations in stars in the solar vicinity, has shed light on the pro duction and distribution of chemical elements. Even more recently more abun dance data have accumulated for external galaxies at both low and high redshift, thus providing precious information on the chemical evolution of different types of galaxies and on the early stages of galaxy evolution.

A lucid introduction for advanced undergraduates and graduate students, and an authoritative overview for researchers and professional scientists.

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