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Descrizione fisica	1 online resource (xiii, 298 pages) : digital, PDF file(s)
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Nota di contenuto	Primordial alchemy: from the big bang to the present / G. Steigman. -- Stellar nucleosynthesis / N. Langer. -- Observational aspects of stellar nucleosynthesis / D.L. Lambert. -- Abundance determinations in HII regions and planetary nebulae / G. Stasinska. -- Element abundances in nearby galaxies / D.R. Garnett. -- Chemical evolution of galaxies and intracluster medium / F. Matteucci. -- Element abundances through the cosmic ages / M. Pettini.
Sommario/riassunto	The chemical composition of the Universe has evolved over billions of years. A host of astrophysical processes and observations must be understood in order to explain why celestial objects have the chemical compositions observed. Originally published in 2004, this book contains the lectures delivered at the XIII Canary Islands Winter School

of Astrophysics, which was dedicated to reviewing current knowledge about the origin and evolution of the chemical elements in the Universe. Written by seven prestigious astrophysics researchers, it covers cosmological and stellar nucleosynthesis, abundance determinations in stars and ionised nebulae, chemical composition of nearby and distant galaxies, and models of chemical evolution of galaxies and intracluster medium. This is a timely review of developments in cosmochemistry over the last decade.

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