

1. Record Nr.	UNINA9910782690403321
Autore	Taylor Stuart Ross <1925->
Titolo	Planetary crusts : their composition, origin and evolution // Stuart Ross Taylor and Scott M. McLennan [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2009
ISBN	1-107-19558-6 0-511-46460-6 9786611982768 1-281-98276-8 0-511-46303-0 0-511-46227-1 0-511-57535-1 0-511-46534-3 0-511-46382-0
Descrizione fisica	1 online resource (xxii, 378 pages) : digital, PDF file(s)
Collana	Cambridge planetary science ; ; new ser., 10
Disciplina	551.1/3
Soggetti	Planets - Crust Planets - Origin
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	The planets : their formation and differentiation -- A primary crust : the highland crust of the moon -- A secondary crust : the lunar maria -- Mercury -- Mars : early differentiation and planetary composition -- Mars : crustal composition and evolution -- Venus : a twin planet to Earth? -- The oceanic crust of the Earth -- The Hadean crust of the Earth -- The Archean crust of the Earth -- The post-Archean continental crust -- Composition and evolution of the continental crust -- Crusts on minor bodies -- Reflections : the elusive patterns of planetary crusts.
Sommario/riassunto	Planetary Crusts explains how and why solid planets and satellites develop crusts. Extensively referenced and annotated, it presents a geochemical and geological survey of the crusts of the Moon, Mercury, Venus, Earth and Mars, the asteroid Vesta, and several satellites like Io,

Europa, Ganymede, Titan and Callisto. After describing the nature and formation of solar system bodies, the book presents a comparative investigation of different planetary crusts and discusses many crustal controversies. The authors propose the theory of stochastic processes dominating crustal development, and debate the possibility of Earth-like planets existing elsewhere in the cosmos. Written by two leading authorities on the subject, this book presents an extensive survey of the scientific problems of crustal development, and is a key reference for researchers and students in geology, geochemistry, planetary science, astrobiology and astronomy.
