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Nota di contenuto	Exploration of the Martian surface : 1992-2007 / L.A. Soderblom and J. B. Bell III -- Historical context : the pre-MGS view of Mars' surface composition / W.M. Calvin and J.F. Bell III -- Martian surface chemistry : APXS results from the Pathfinder landing site / C.N. Foley [and others] -- Mars Exploration Rovers : chemical composition by the APXS / J. Bruckner [and others] -- Elemental abundances determined via the Mars Odyssey GRS / W.V. Boynton [and others] -- Volatiles on Mars : scientific results from the Mars Odyssey Neutron Spectrometer / W.C. Feldman [and others] -- Mineralogy of the Martian surface from Mars Express OMEGA observations / J.-P. Bibring and Y. Langevin -- Visible to near-IR multispectral orbital observations of Mars / J.F. Bell III [and others] -- Global mineralogy mapped from the Mars Global Surveyor Thermal Emission Spectrometer / P.R. Christensen [and others] -- The

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Sommario/riassunto

Phenomenal new observations from Earth-based telescopes and Mars-based orbiters, landers, and rovers have dramatically advanced our understanding of the past environments on Mars. These include the first global-scale infrared and reflectance spectroscopic maps of the surface, leading to the discovery of key minerals indicative of specific past climate conditions; the discovery of large reservoirs of subsurface water ice; and the detailed in situ roving investigations of three new landing sites. This an important, new overview of the compositional and mineralogic properties of Mars since the last major study published in 1992. An exciting resource for all researchers and students in planetary science, astronomy, space exploration, planetary geology, and planetary geochemistry where specialized terms are explained to be easily understood by all who are just entering the field.
