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<b>Titolo</b>	Astromineralogy [[electronic resource] /] / edited by Thomas Henning
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<b>Collana</b>	Lecture Notes in Physics, , 0075-8450 ; ; 815
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<b>Disciplina</b>	549.999
<b>Soggetti</b>	Physical chemistry Condensed matter Astronomy Astrophysics Mineralogy Space sciences Observations, Astronomical Astronomy—Observations Physical Chemistry Condensed Matter Physics Astronomy, Astrophysics and Cosmology Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics) Astronomy, Observations and Techniques
<b>Lingua di pubblicazione</b>	Inglese
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<b>Livello bibliografico</b>	Monografia
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<b>Nota di bibliografia</b>	Includes bibliographical references.
<b>Nota di contenuto</b>	From Dust Astrophysics Towards Dust Mineralogy – A Historical Review -- Formation and Evolution of Minerals in Accretion Disks and Stellar Outflows -- The Mineralogy of Interstellar and Circumstellar Dust in Galaxies -- The Mineralogy of Cometary Dust -- The In-Situ Study of Solid Particles in the Solar System -- The Astromineralogy of Interplanetary Dust Particles -- The Most Primitive Material in Meteorites -- Laboratory Astrophysics of Cosmic Dust Analogues.
<b>Sommario/riassunto</b>	Astromineralogy deals with the science of gathering mineralogical information from the astronomical spectroscopy of asteroids, comets

and dust in the circumstellar environments in general. This field has received a tremendous boost with the reliable identification of minerals by the Infrared Space Observatory. The first edition of this book, published in 2003, was the first comprehensive and coherent account of this exciting field. Data obtained in the meantime with the Spitzer Infrared Space Telescope, the Stardust mission to the comet 81P / Wild 2, and with the Cassini mission, together with progress in ground-based observations and laboratory astrophysics form the basis for this updated and widely extended second edition. Beyond addressing the specialist in the field, the book is intended as a high-level but readable introduction to astromineralogy for both the nonspecialist researcher and the advanced student.

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