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Nota di contenuto	Preface -- Samples and experimental methods -- General introduction of the Yanzhuang meteorite -- Microstructures and shock metamorphic features of minerals in the unmelted chondritic portion -- Morphology and petrography of shock-produced melt veins and melt pockets -- Transparent minerals and silicate glass in shock-produced melt -- Vapor-grown crystals in the Yanzhuang meteorite -- Morphology and cooling rates of metal-sulfide eutectic nodules -- Intra-microstructures of FeNi metal in eutectic nodules -- Spatiotemporal pattern of FeNi metal melt solidification and crystallization mechanism in space -- Fe-Mn-Na phosphates and Al-free chromite in the eutectic metal-troilite nodule -- Neutron activation analysis of trace elements in Yanzhuang -- LA-ICP-MS analysis of trace elements in Yanzhuang -- PIXE analysis of trace elements in eutectic FeNi-FeS nodules -- Thermoluminescence characteristics of Yanzhuang meteorite -- Comparison of Yanzhuang shock features with those of experimentally shocked Jilin meteorite -- Shock history of Yanzhuang meteorite.
Sommario/riassunto	This book investigates the mineralogy and shock effects of Yanzhuang chondrite, using modern micro-mineralogical experimental techniques, including SEM, TEM, EPMA, Raman microprobe spectroscopy, instrumental neutron activation analysis, X-ray micro-diffraction analysis, micro-PIXE analysis and laser ablation ICP-MS. The micro-structural and micro-morphological characteristics as well as chemical composition of minerals were studied in details. Based on the studies in

the shock effects of rocks and minerals, and the detailed study in the shock-produced melt, the book concludes that Yanzhuang chondrite is the most heavily shocked ordinary H group chondrite ever found and that it contains the most abundant shock induced melt among all known shock-melt-bearing chondritic meteorites.
