	Record Nr.	UNINA9910781712803321
	Autore Titolo	Melosh H. J.
		Planetary surface processes / / H. Jay Melosh [[electronic resource]]
-	Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
15	SBN	1-107-21566-8
		1-139-12418-8
		1-283-29832-5 9786613298324
		1-139-12227-4
		0-511-97784-0
		1-139-11653-3
		1-139-12719-5
		1-139-11217-1
		1-139-11436-0
C	Descrizione fisica	1 online resource (xix, 500 pages) : digital, PDF file(s)
С	Collana	Cambridge planetary science ; ; new ser., 13
С	Classificazione	SCI004000
C	Disciplina	559.9/2
S	Soggetti	Planets - Surfaces
		Geomorphology
L	ingua di pubblicazione	Inglese
F	Formato	Materiale a stampa
L	ivello bibliografico	Monografia
Ν	Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Ν	Nota di bibliografia	Includes bibliographical references and index.
N	Nota di contenuto	Machine generated contents note: Preface; 1. The grand tour; 2. The shapes of planets and moons; 3. Strength versus gravity; 4. Tectonics; 5. Volcanism; 6. Impact cratering; 7. Regoliths, weathering and surface texture; 8. Slopes and mass movement; 9. Wind; 10. Water; 11. Ice; References; Index.
S	Sommario/riassunto	Planetary Surface Processes is the first advanced textbook to cover the full range of geologic processes that shape the surfaces of planetary- scale bodies. Using a modern, quantitative approach, this book reconsiders geologic processes outside the traditional terrestrial context. It highlights processes that are contingent upon Earth's unique circumstances and processes that are universal. For example, it shows explicitly that equations predicting the velocity of a river are dependent on gravity: traditional geomorphology textbooks fail to take this into

account. This textbook is a one-stop source of information on planetary surface processes, providing readers with the necessary background to interpret new data from NASA, ESA and other space missions. Based on a course taught by the author at the University of Arizona for 25 years, it is aimed at advanced students, and is also an invaluable resource for researchers, professional planetary scientists and space-mission engineers.