



1st ed. 2018, LXV, 433 p. 166 illus., 112 illus. in color.

### Printed book

Hardcover

84,99 € | £67.99 | \$109.00

<sup>[1]</sup>90,94 € (D) | 93,49 € (A) | CHF 93,50

### eBook

71,39 € | £53.99 | \$84.99

<sup>[2]</sup>71,39 € (D) | 71,39 € (A) | CHF 74,50

Available from your library or [springer.com/shop](http://springer.com/shop)

### MyCopy <sup>[3]</sup>

Printed eBook for just

€ | \$ 24.99

[springer.com/mycopy](http://springer.com/mycopy)

Angelo Pio Rossi, Stephan van Gassel (Eds.)

# Planetary Geology

Series: Astronomy and Planetary Sciences

- Presents a multi-disciplinary textbook on planetary geology
- Provides an up-to-date interdisciplinary geoscience-focused overview of solid Solar System bodies and their evolution
- Complemented by exercises and interactive material provided in a self-contained online repository

This book provides an up-to-date interdisciplinary geoscience-focused overview of solid solar system bodies and their evolution, based on the comparative description of processes acting on them. Planetary research today is a strongly multidisciplinary endeavor with efforts coming from engineering and natural sciences. Key focal areas of study are the solid surfaces found in our Solar System. Some have a direct interaction with the interplanetary medium and others have dynamic atmospheres. In any of those cases, the geological records of those surfaces (and sub-surfaces) are key to understanding the Solar System as a whole: its evolution and the planetary perspective of our own planet. This book has a modular structure and is divided into 4 sections comprising 15 chapters in total. Each section builds upon the previous one but is also self-standing. The sections are: Methods and tools Processes and Sources Integration and Geological Syntheses Frontiers The latter covers the far-reaching broad topics of exobiology, early life, extreme environments and planetary resources, all areas where major advancements are expected in the forthcoming decades and both key to human exploration of the Solar System. The target readership includes advanced undergraduate students in geoscience-related topics with no specific planetary science knowledge; undergraduates in other natural science domains (e.g. physics, astronomy, biology or chemistry); graduates in engineering and space systems design who want to complement their knowledge in planetary science. The authors' backgrounds span a broad range of topics and disciplines: rooted in Earth geoscience, their expertise covers remote sensing and cartography, field mapping, impact cratering, volcanology and tectonics, sedimentology and stratigraphy exobiology and life in extreme environments, planetary resources and mining.

Lifelong 40% discount for authors



Order online at [springer.com](http://springer.com) / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com). / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com).

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.