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SPACE GEOLOGY

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ELBERT A. KING

# SPACE GEOLOGY

AN INTRODUCTION

# Space Geology An Introduction

**Dominic Fortes, Claudio Vita-Finzi**



## **Space Geology An Introduction:**

**Planetary Geology** Claudio Vita-Finzi, Andrew Dominic Fortes, 2013-06-20 In a dynamic treatment of planets of the Solar System from a unified perspective Planetary Geology deals with the origin of planetary bodies the forces that fashion their surfaces the rise and fall of icecaps and oceans and the role of life in planetary history **Introduction to Planetary**

**Science** Gunter Faure, Teresa M. Mensing, 2007-05-04 This textbook details basic principles of planetary science that help to unify the study of the solar system It is organized in a hierarchical manner so that every chapter builds upon preceding ones Starting with historical perspectives on space exploration and the development of the scientific method the book leads the reader through the solar system Coverage explains that the origin and subsequent evolution of planets and their satellites can be explained by applications of certain basic principles of physics chemistry and celestial mechanics and that surface features of the solid bodies can be interpreted by principles of geology **Space Geology** Elbert A. King, 1976 *Planetary*

*Geology* Dominic Fortes, Claudio Vita-Finzi, 2025-02-17 Planetary geology today extends far beyond the study of rocks encompassing planetary origins interiors tectonics atmospheres oceans and biology It is not limited to the planets within our own solar system either The past decade has witnessed groundbreaking missions to asteroids and comets as well as the discovery of thousands of exoplanets orbiting distant stars This book offers a comprehensive exploration of the intricate geological processes shaping planets both within and beyond our solar system It introduces fundamental concepts while framing the latest developments in planetary science With over 1 000 references from more than 170 journals this fully updated 3rd edition Focuses on geological processes rather than a planet by planet approach essential for understanding the common mechanisms linking planetary bodies across the universe Explains complex concepts in an accessible manner avoiding undue reliance on mathematical formulas and equations Takes into account the increasing globalisation and commercialisation of space exploration and planetary science A best selling student text Planetary Geology serves as an approachable yet in depth introduction to a field that can seem overwhelming in its scope Throughout authors Dominic Fortes and Claudio Vita Finzi foster curiosity and critical thinking driven by the belief that a deeper understanding of planetary processes will ultimately help us better understand Earth's place in the universe **Introduction to Planetary**

**Geomorphology** Ronald Greeley, 2013-02-21 Nearly all major planets and moons in our Solar System have been visited by spacecraft and the data they have returned has revealed the incredible diversity of planetary surfaces Featuring a wealth of images this textbook explores the geological evolution of the planets and moons Introductory chapters discuss how information gathered from spacecraft is used to unravel the geological complexities of our Solar System Subsequent chapters focus on current understandings of planetary systems The textbook shows how planetary images and remote sensing data are analyzed through the application of fundamental geological principles It draws on results from spacecraft sent throughout the Solar System by NASA and other space agencies Aimed at undergraduate students in planetary geology geoscience

astronomy and solar system science it highlights the differences and similarities of the surfaces at a level that can be readily understood by non specialists    **'Space Geology - an Introduction' by E.A. King : Book Review** G. M. Brown,A. E. King,

*Handbook of Space Law* Frans von der Dunk,2015-02-27 The Handbook of Space Law addresses the legal and regulatory aspects of activities in outer space and major space applications from a comprehensive and structured perspective It fundamentally addresses the dichotomy between the state oriented character    *A Geographic Comparison of Selected Large-scale Planetary Surface Features* Stephen Paul Meszaros,1984    **Introduction to Planetary Geomorphology**

Ronald Greeley,2013-02-21 Featuring hundreds of images this textbook explores the geological evolution of planets and moons for undergraduate students in planetary science    **Planetary Geology** ,1998    **NASA Technical Memorandum** ,1986    *Remote Sensing of Earth Resources* NASA Scientific and Technical Information Facility,1970    **Planetary Size**

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**Engineering Geology for a Habitable Earth: IAEG XIV Congress 2023 Proceedings, Chengdu, China** Sijing Wang,Runqiu Huang,Rafiq Azzam,Vassilis P. Marinos,2024-08-16 This book collects the selected papers of the XIV Congress of the International Association for Engineering Geology and the Environment held in Chengdu Sichuan China from September 21st 27th 2023 with the theme of Engineering Geology for a Habitable Earth The meeting proceedings analyses the dynamic role of engineering geology in our changing world The congress is expected to enhance the inter disciplinary research development of international engineering geology and the environment and contribute to the advancement of major projects ecological progress and habitable earth with in depth discussion in the area of engineering geology and global climate change geological hazard assessment and prevention geotechnical properties of rock and soil mass engineering geology and the environmental issues concerning marine transportation urban and ecological environment protection engineering geology and resilience engineering construction intelligent engineering geology and new theories methods and techniques in engineering geology *Introductory Text-book of Geology* David Page,1871 **Analogs for Planetary Exploration** W. Brent Garry,Jacob E. Bleacher,2011 Where on Earth is it like Mars How were the Apollo astronauts trained to be geologists on the Moon Are volcanoes on Earth just like the ones on other planets The exploration of our solar system begins in our own backyard Discoveries on other planetary bodies cannot always be easily explained Therefore geologic sites on this planet are used to better understand the extraterrestrial worlds we explore with humans robots and satellites *Analogs for Planetary Exploration* is a compilation of historical accounts of astronaut geology training overviews of planetary geology research on Mars educational field trips to analog sites plus concepts for future human missions to the Moon This Special Paper provides a great overview of the science training and planning related to planetary exploration for students educators researchers and geology enthusiasts After all as we learn about the solar system we can better understand our own planet Earth

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