

Geology And Sedimentology Of The Korean Peninsula: Delving into a Geological Masterpiece

The Korean Peninsula, a multifaceted landmass jutting out from the East Asian mainland, presents a captivating geological tapestry woven over millions of years. "Geology And Sedimentology Of The Korean Peninsula", an authoritative volume published by Elsevier Insights, takes us on an extraordinary journey through the intricacies of this region's geological evolution. Authored by renowned experts in the field, this comprehensive work unravels the geological mysteries of Korea, offering invaluable insights for students, researchers, and enthusiasts alike.

Chapter 1: A Geological Overview of the Korean Peninsula

Embarking on our geological expedition, we begin with a comprehensive overview of the Korean Peninsula's geological framework. This chapter provides a solid foundation, outlining the peninsula's complex tectonic history, major geological provinces, and the distribution of various rock types. It sets the stage for a deeper understanding of the geological processes that have shaped this fascinating region.



Geology and Sedimentology of the Korean Peninsula

(Elsevier Insights) by Sung Kwun Chough

★★★★☆ 4 out of 5

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Enhanced typesetting : Enabled
Print length : 348 pages



Chapter 2: Stratigraphy of the Korean Peninsula

Delving into the geological layers of Korea, Chapter 2 meticulously examines the stratigraphy of the peninsula. It chronologically unravels the sequence of sedimentary rocks, from the ancient Archean to the modern Quaternary periods. Each stratigraphic unit is described in detail, revealing its lithology, depositional environment, and the secrets it holds about past climates and environments.

Chapter 3: Igneous Rocks of the Korean Peninsula

The Korean Peninsula is a treasure trove of igneous rocks, formed from the solidification of molten magma. Chapter 3 delves into the diverse array of igneous rocks found throughout the peninsula, from granite to basalt. It explores their petrography, mineralogy, and geochemical characteristics, shedding light on the magmatic processes responsible for their formation.

Chapter 4: Sedimentary Rocks of the Korean Peninsula

Moving on to sedimentary rocks, Chapter 4 embarks on a journey through the sedimentary archives of Korea. It unveils the diverse range of sedimentary rocks, from conglomerates to limestones, and examines their textures, structures, and depositional environments. This chapter provides a glimpse into ancient landscapes and the sedimentary processes that have shaped the peninsula's surface.

Chapter 5: Metamorphic Rocks of the Korean Peninsula

Exploring the metamorphic realm, Chapter 5 delves into the transformations that have occurred within the Korean Peninsula's rocks. It investigates the various types of metamorphic rocks, from schist to gneiss, and explores the metamorphic processes, such as heat and pressure, that have altered their mineralogy and texture. This chapter unravels the cryptic history hidden within these enigmatic rocks.

Chapter 6: Geomorphology of the Korean Peninsula

Venturing beyond the rocks, Chapter 6 focuses on the geomorphology of the Korean Peninsula. It examines the diverse landscapes, from rugged mountains to pristine coastlines, and explores the processes that have sculpted the peninsula's surface. This chapter uncovers the interplay between geology, climate, and erosion in shaping the breathtaking scenery we witness today.

Chapter 7: Petrology of the Korean Peninsula

Delving deeper into the composition and origin of rocks, Chapter 7 delves into the petrology of the Korean Peninsula. It investigates the mineralogy, texture, and genesis of various rock types, from igneous to metamorphic. This chapter provides a comprehensive understanding of the physical and chemical processes involved in rock formation.

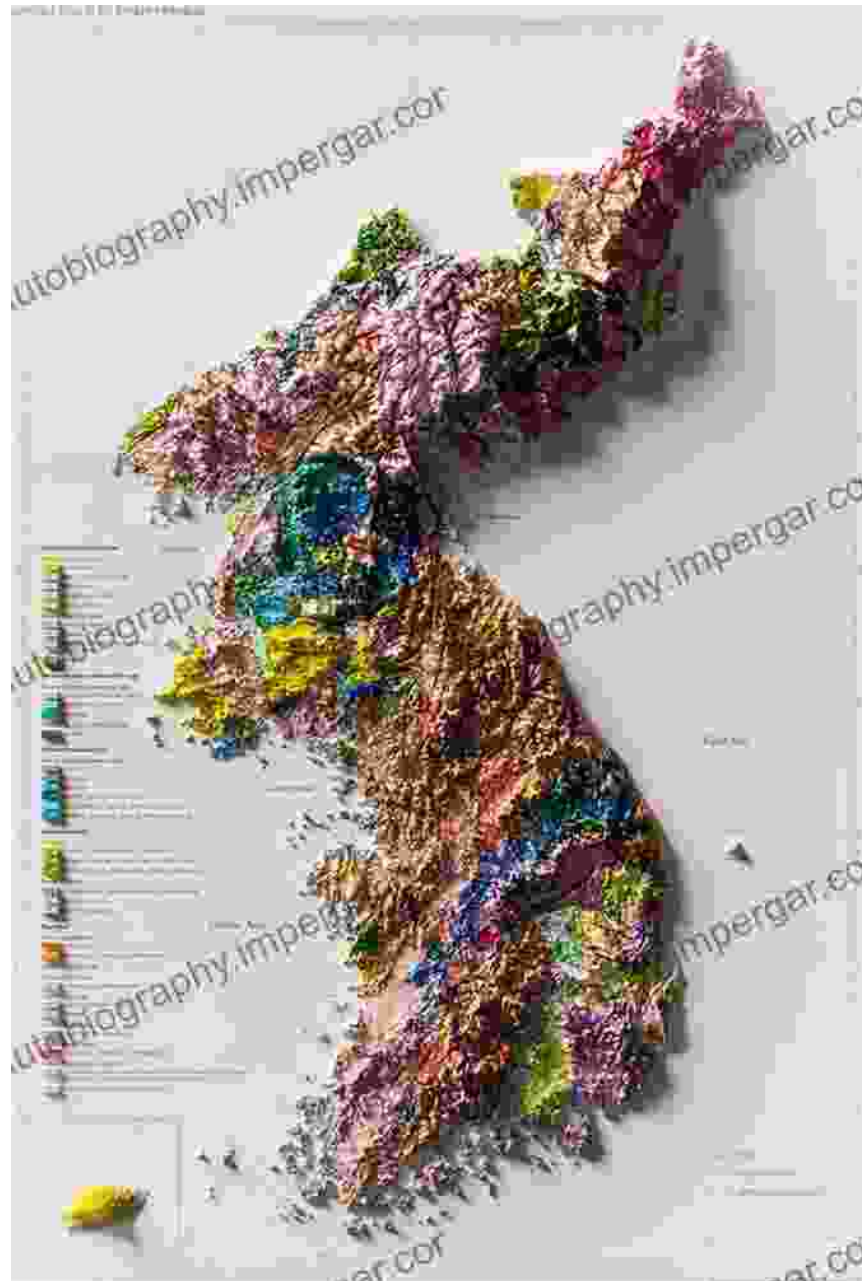
Chapter 8: Mineralogy of the Korean Peninsula

Focusing on the fundamental building blocks of rocks, Chapter 8 explores the mineralogy of the Korean Peninsula. It catalogs the diverse array of minerals found throughout the peninsula, including their crystal structures, chemical compositions, and physical properties. This chapter uncovers the secrets hidden within the mineral kingdom.

Chapter 9: Paleontology of the Korean Peninsula

Venturing into the realm of ancient life, Chapter 9 delves into the paleontology of the Korean Peninsula. It unveils the rich fossil record, from Precambrian stromatolites to Cenozoic mammals, providing a glimpse into the diverse ecosystems that have inhabited the peninsula over time. This chapter brings the past to life, revealing the evolutionary history of Korea's flora and fauna.

"Geology And Sedimentology Of The Korean Peninsula" is an indispensable resource for anyone seeking to unravel the geological wonders of this captivating region. Its comprehensive coverage, authoritative insights, and stunning imagery make it an essential addition to the libraries of geologists, sedimentologists, earth scientists, and anyone fascinated by the geological tapestry of our planet. Through this remarkable volume, we embark on a profound journey into the geological heart of Korea, unearthing the secrets hidden within its rocks, minerals, and landscapes.



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