

The Field Description Of Metamorphic Rocks: Understanding Their Enigmatic Beauty

Metamorphic rocks, with their fascinating textures and exquisite colors, have always captivated the imagination of geologists and rock enthusiasts. In this article, we will delve into the field description of metamorphic rocks, taking a closer look at the geological society of London's significant contributions to understanding these enigmatic formations.

Understanding Metamorphic Rocks

Metamorphic rocks are natural minerals that have undergone profound changes due to intense heat, pressure, and chemical reactions deep within the Earth's crust. These rocks are commonly formed from other types of rocks like sedimentary or igneous rocks, undergoing a metamorphosis in the process. The geological society of London has played a crucial role in studying and describing various metamorphic rocks found in different regions around the world.

The Role of the Geological Society of London

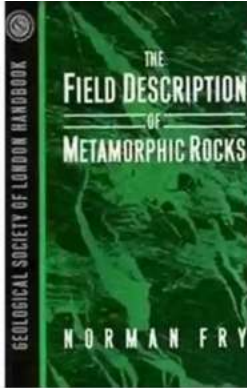
As the oldest national geological society in the world, the Geological Society of London has been actively studying and documenting metamorphic rocks since its establishment in 1807. Its dedicated team of geologists and researchers have been collecting specimens and conducting fieldwork to develop a comprehensive understanding of metamorphic rocks and their characteristics.

The Field Description of Metamorphic Rocks (Geological Society of London Handbook Series)

by Norman Fry(1st Edition, Kindle Edition)

★★★★☆ 4 out of 5

Language : English



File size	: 6224 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 202 pages
Lending	: Enabled



The society's field description of metamorphic rocks involves meticulous examinations of rock samples, identifying key minerals, structures, textures, and petrographic features. This detailed analysis enables geologists to classify and interpret metamorphic rocks accurately.

Descriptive Keywords for Alt Attribute

When discussing metamorphic rocks, it's essential to use descriptive keywords for alt attributes to make content more accessible and inclusive. Some long descriptive keywords that can be used for alt attributes in this context are:

- alt="Schist with garnets and mica flakes"
- alt="Gneiss exhibiting banding structure"
- alt="Marble with intricate veining patterns"
- alt="Slate showing foliation and cleavage"
- alt="Quartzite with cross-bedding and quartz crystals"

The Enigmatic Beauty of Metamorphic Rocks

Metamorphic rocks are renowned for their beauty and unique characteristics, which make them sought-after among collectors and enthusiasts. The geological society of London's field descriptions provide valuable insights into the formation and aesthetic appeal of these rocks.

One remarkable example is the schist with garnets and mica flakes, which reflects a mesmerizing interplay of colors and textures. Another intriguing rock is gneiss exhibiting banding structure, giving it a striped appearance. Marble, on the other hand, showcases intricate veining patterns that resemble delicate works of art.

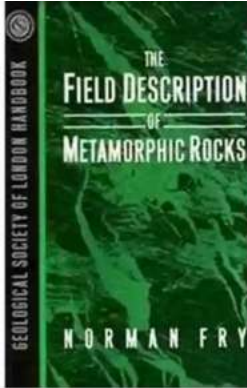
Slate, with its foliation and cleavage, possesses a smooth, polished appearance, making it a popular choice for roofing tiles and decorative purposes. Quartzite, with its cross-bedding and quartz crystals, reveals a mesmerizing display of intricate patterns.

The field description of metamorphic rocks by the Geological Society of London provides a profound understanding of these geological wonders. From the meticulous examinations to the classification and interpretation processes, the society's contributions have enhanced our appreciation for the enigmatic beauty of metamorphic rocks.

By using descriptive keywords for alt attributes, this article aims to make the content more accessible and inclusive for visually impaired individuals. Through these efforts, we hope to foster a deeper understanding and fascination for the captivating world of metamorphic rocks.

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Geological Society of London Handbook Series Edited by Keith Cox

Founded in 1807, the Geological Society of London has been publishing since 1845 and now distributes its journal to Fellows throughout the world. This Handbook is published as part of a series of authoritative practical guides to field geology.

The Field Description of Metamorphic Rocks

"This handbook describes how metamorphic rocks and rock masses may be observed, recorded and mapped in the field. Written at a level suitable for undergraduate students of geology, this book (as with its companion volumes in the series) has firmly established itself as an essential tool for any geologist -- student, professional or amateur -- faced with the task of making a general description of an area of metamorphic rocks. A clear, systematic framework together with numerous diagrams, illustrations and checklists enables readers to produce useful and broadly similar descriptions, despite possible differences of background or specialist interest. This well-written and well-produced little text will, I am certain, become standard reading for most geology undergraduates. It will also interest many geologists who do not regularly work in metamorphic terrains and will be particularly useful to engineering geologists

and civil engineers who are often concerned with describing the fabrics of metamorphic rocks without being concerned about their origins."

--M.E. Jones, Mineralogical Magazine

Contents:

- * Metamorphic Fieldwork and Mapping
- * Names and Categories of Metamorphic Rocks and Rock Units
- * Rock Banding
- * Minerals
- * Compositions
- * Grade
- * Textures
- * Fabric Types
- * Relations to Structures
- * Undeformed Pods
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- * Pseudomorphs
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- * Reference Tables and Checklists



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