

## CHAPTER 4: IGNEOUS ROCKS

*Most rocks in the Fells are igneous rocks. This chapter will introduce you to specific types of igneous rocks and how they form. For more detail on the formation of igneous rocks I suggest Winter (2010) and Jerram (2021).*

*(Note: Terms in red and italics appear as entries in the companion glossary.)*

Igneous rocks have several important characteristics that give us clues about where, when, and how they have formed. Knowing the chemical constituents of the rock, i.e., what minerals are in it, and whether it is intrusive or extrusive tells us about how and where magma was generated, the magma's flow as a liquid, and the conditions (temperature, pressure, water content, depth, etc.) under which the magma crystallized. Another important consideration about igneous rocks in the Fells is how the different units might be related to each other. For example, were they from the same magma chamber or formed at about the same time? We will have to make observations about mineral types, composition, and **textures** (grain size and grain arrangement) to get meaningful information about igneous rocks.

### 4.1 IS IT IGNEOUS?

One thing that distinguishes most igneous rocks from other rock types is that they are made of silicate and aluminosilicate minerals (see section 3.3.1) that form **interlocking crystals**. It is unusual for other types of minerals to be abundant, except for some secondary oxides and sulfides. The **interlocking texture** means that the mineral grains grow against each other and at least partly surround each other, fitting together like the pieces of a jigsaw puzzle (Fig. 4.1). Many times, we can see flat boundaries on some of the mineral grains where they are in contact with each other. These are crystal faces, and they represent the shape of the mineral grains as they grew in the magma (see Fig. 2.5). These relationships may be difficult to see in an outcrop or in hand specimens unless the mineral grains are coarse, but it becomes much clearer in sawed rock slabs or in microscope views (see Figs. 2.2-2.4). A hand lens is very helpful in this regard. Although igneous rock recognition is not difficult, it takes a little practice, especially in the Fells, where igneous rocks can be hard to identify in the field. To get useful information, we will have to go beyond simply identifying a rock as igneous and learn some specific igneous rock types.

**Figure 4.1** – Thin section view with crossed polarizers showing interlocking crystals of pyroxene (colorful grains), biotite (dark brown) and plagioclase feldspar (white to black striped grains) in a coarse-grained igneous rock. See also Figure 2.5.



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**Ian Pickup**



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**Geotechnical Slope Analysis** Robin Chowdhury, Gautam Bhattacharya, Phil Flentje, 2009-11-18 Freshly updated and extended version of Slope Analysis Chowdhury Elsevier 1978 This reference book gives a complete overview of the developments in slope engineering in the last 30 years Its multi disciplinary critical approach and the chapters devoted to seismic effects and probabilistic approaches and reliability analyses reflect the distinctive style of the original Subjects discussed are the understanding of slope performance mechanisms of instability requirements for modeling and analysis and new techniques for observation and modeling Special attention is paid to the relation with the increasing frequency and consequences of natural and man made hazards Strategies and methods for assessing landslide susceptibility hazard and risk are also explored Moreover the relevance of geotechnical analysis of slopes in the context of climate change scenarios is discussed All theory is supported by numerous examples A wonderful book on Slope Stability recommended as a reference book to those who are associated with the geotechnical engineering profession undergraduates post graduates and consulting engineers Prof Devendra Narain Singh Indian Inst of Technology Mumbai India I have yet to see a book that excels the range and depth of Geotechnical Slope Analysis I have failed to find a topic which is not covered and that makes the book almost a single window outlet for the whole range of readership from students to experts and from theoreticians to practicing engineers Prof R K Bhandari New Delhi India Introduction to Ore-Forming Processes Laurence Robb, 2020-10-19 A comprehensive account of ore forming processes revised and updated The revised second edition of Introduction to Ore Forming Processes offers a guide to the multiplicity of geological processes that result in the formation of mineral deposits The second edition has been updated to reflect the most recent developments in the study of metallogeny and earth system science This second edition contains new information about global tectonic processes and crustal evolution that continues to influence the practice of economic geology and maintains the supply of natural resources in a responsible and sustainable way The replenishment of depleted natural resources is becoming more difficult and environmentally challenging There is also a change in the demand for mineral commodities and the concern around the non sustainable

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Rock Characterization John A. Hudson, 1992

**Loose Riprap Protection** Wendell L. Scheib, 1989

Rock Minerals, Their Chemical and Physical Characters and Their Determination in Thin Sections Joseph Paxson Iddings, 1906

**Water-Rock Interaction, Two Volume Set** Richard B. Wanty, Robert R. Seal II, 2004-09-02 The interaction of the lithosphere and hydrosphere sets the boundary conditions for life as water and the nutrients extracted from rocks are essential to all known life forms Water rock interaction also affects the fate and transport of pollutants mediates the long term cycling of fluids and metals in the earth's crust impacts the migration and

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Water-Rock Interaction Oleg V. Chudakov, Yousif K. Kharaka, 2021-07-28 Water rock interactions play an important role in nearly all physical and chemical processes operating on the Earth's surface and subsurface This work contains the proceedings of the Eighth International Symposium on Water Rock Interaction WRI 8 held in Russia in 1995

Geological Series Michigan. Geological Survey Division, 1911 *U.S. Geological Survey Bulletin*, 1983

**Water-rock Interaction: Low temperature environments** Yousif K. Kharaka, Ann S. Maest, 1992 First published in 1992 Routledge is an imprint of Taylor Francis an informa company

**The Songwriting Secrets Of The Beatles** Dominic Pedler, 2010-05-25 Thirty years after The Beatles split up the music of Lennon McCartney Harrison and Starr lives on What exactly were the magical ingredients of those legendary songs Why are they still so influential for today's bands This ground breaking book sets out to explore The Beatles songwriting techniques in a clear and readable style It is aimed not only at musicians but anyone who has ever enjoyed the work of one of the most productive and successful songwriting partnerships of the 20th Century Author Dominic Pedler explores the chord sequences melodies harmonies rhythms and structures of The Beatles self penned songs while challenging readers to enhance their appreciation of the lyrics themselves with reference to the musical context Throughout the book the printed music and lyrics of The Beatles songs appear alongside the text illustrating the author's explanations The Songwriting Secrets Of The Beatles is an essential addition to Beatles literature a new and perceptive analysis of both the music and the lyrics written and performed by what Paul McCartney still calls a really good tight little band

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### **Table of Contents Rocks Introduction Ch 4 And 5 1 Answer Key**

1. Understanding the eBook Rocks Introduction Ch 4 And 5 1 Answer Key
  - The Rise of Digital Reading Rocks Introduction Ch 4 And 5 1 Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Rocks Introduction Ch 4 And 5 1 Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Rocks Introduction Ch 4 And 5 1 Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Rocks Introduction Ch 4 And 5 1 Answer Key
  - Personalized Recommendations
  - Rocks Introduction Ch 4 And 5 1 Answer Key User Reviews and Ratings

- Rocks Introduction Ch 4 And 5 1 Answer Key and Bestseller Lists
- 5. Accessing Rocks Introduction Ch 4 And 5 1 Answer Key Free and Paid eBooks
  - Rocks Introduction Ch 4 And 5 1 Answer Key Public Domain eBooks
  - Rocks Introduction Ch 4 And 5 1 Answer Key eBook Subscription Services
  - Rocks Introduction Ch 4 And 5 1 Answer Key Budget-Friendly Options
- 6. Navigating Rocks Introduction Ch 4 And 5 1 Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Rocks Introduction Ch 4 And 5 1 Answer Key Compatibility with Devices
  - Rocks Introduction Ch 4 And 5 1 Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Rocks Introduction Ch 4 And 5 1 Answer Key
  - Highlighting and Note-Taking Rocks Introduction Ch 4 And 5 1 Answer Key
  - Interactive Elements Rocks Introduction Ch 4 And 5 1 Answer Key
- 8. Staying Engaged with Rocks Introduction Ch 4 And 5 1 Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rocks Introduction Ch 4 And 5 1 Answer Key
- 9. Balancing eBooks and Physical Books Rocks Introduction Ch 4 And 5 1 Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Rocks Introduction Ch 4 And 5 1 Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Rocks Introduction Ch 4 And 5 1 Answer Key
  - Setting Reading Goals Rocks Introduction Ch 4 And 5 1 Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Rocks Introduction Ch 4 And 5 1 Answer Key
  - Fact-Checking eBook Content of Rocks Introduction Ch 4 And 5 1 Answer Key
  - Distinguishing Credible Sources



13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
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