

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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Homework Helpers: Earth Science Phil Medina, 2025-09-12 Homework Helpers Earth Science covers all of the topics typically included in a high school or undergraduate course including How to understand the language of rocks The events that we see in the sky and how they affect us Earthquakes and what they can tell us about the inside workings of our world How to understand the weather and what the weatherman is saying Homework Helpers Earth Science is loaded with practical examples using everyday experiences Every topic includes a number of simple tricks to make even the toughest ideas understandable and memorable Each chapter ends with practice questions and explanations of answers As a reference tool Homework Helpers Earth Science can be used as a preview of tomorrow's class or a reinforcement of today's It will leave students with a firm grasp of the material and the confidence that will inspire a deeper understanding *Rock*

Indentation Chivukula Murthy, 2021-08-29 This book focusses on rock indentation and importance of specific drilling cutting energy as a performance indicator for drilling rock cutting It aids in designing of drill bits and cutting picks through performance evaluation for a given geometry It further covers stress distribution along three axes in rock during load application correlation of specific energy with properties of rocks and statistical modelling to generate mathematical equation to estimate the specific energy indentation including performance prediction by artificial neural network modelling Presented models can be used to assess the specific energy in rock indentation from the physic mechanical properties of rocks Presents synthesis of rock indentation experiments and analyses Deals with statistical modeling to generate mathematical equations to estimate the specific energy indentation from the rock parameters properties Discusses how to find the performance of drill and cutting bits during drilling or cutting operations through indentation test Covers numerical modeling to explain stress distribution in rock during rock indentation Includes artificial neural network concepts used in field of rock mechanics This book is aimed at researchers and graduate students in mining geological engineering and mechanical engineering **Rock Art and Regional Identity** Jamie Hampson, 2016-06-16 This unique volume demonstrates

that there are archaeological and anthropological ways of accessing the past in order to investigate and explain the significance of rock art motifs and highlights the importance of regional rock art studies and regional variations

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

Hands-On - Earth & Space Science: Rocks and Minerals Gr. 1-5 George Graybill, 2017-01-01 This is the chapter slice Rocks and Minerals Gr 1 5 from the full lesson plan Hands On Earth Space Science Inspire your students to gain a deep understanding of our planet earth and beyond with our Hands On Earth Space Science resource for grades 1 5 Combining Science Technology Engineering Art and Math this resource aligns to the STEAM initiatives and Next Generation Science Standards Make your own weather forecast as a group Find out how much rain has fallen by building your own rain gauge Get a glimpse at how wind works by creating your own sand dunes Tell a story by drawing your own rock layer Get into groups to make your own solar cell windmill or water wheel Track the movement of the Moon with your own Lunar Calendar Each concept is paired with hands on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts Reading passages graphic organizers before you read and assessment activities are included

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 supply of critical metals is now an important consideration for planners of the future The book puts the focus on the responsible custodianship of natural resources and the continuing need for all earth scientists to understand metallogeny and the resource cycle This new edition Provides an updated guide to the processes involved in the formation of mineral deposits Offers an overview of magmatic hydrothermal and sedimentary ore forming processes Covers the entire range of mineral deposit types including the fossil fuels and supergene ores Relates metallogeny to global tectonics by examining the distribution of mineral deposits in space and time Contains examples of world famous ore deposits that help to provide context and relevance to the process oriented descriptions of ore genesis Written for students and professionals alike Introduction to Ore Forming Processes

offers a revised second edition that puts the focus on the fact that mineral deposits are simply one of the many natural wonders of geological process and evolution **Bulletin**, 1960 **Design of Underground Openings in Competent Rock** Leonard Obert, 1960 Water-Rock Interaction XIII Peter Birkle, Ignacio Salvador Torres Alvarado, 2010-10-01 In the late 18th century Neptunists and Plutonists had controversial opinions about the formation of the Earth and its lithological units The former believed that rocks formed from the crystallization of minerals in the early Earth's oceans the latter believed that rocks were formed in fire Both theories ignored the importance of continuous water **W-Sn Skarn Deposits** T.A.P. Kwak, 2012-12-02 Intended as a reference for the academically oriented geologist as well as the practising economic geologist this book is concerned with the study of skarn deposits having anomalously high tin or tungsten contents or both Unlike many other books on economic geology both economic W Sn skarns and non economic examples are covered in order to enable the academically oriented reader to grasp the full range of such deposits and also to aid the economic geologist in distinguishing between W Sn skarns having economic potential and those which do not W Sn skarns are notoriously complex containing a wide range of textures grain sizes mineral assemblages bulk compositions and structures The lack of a sufficiently detailed data base coupled with some unsupportable genetic models has led to many misunderstandings and has often resulted in needless expenditure and effort on fruitless mineral exploration Thus the first aim of this book is simply to provide an adequate data base with sufficient references to enable an interested worker to define a skarn deposit and know where to find additional information on similar examples To aid this as much data as possible is presented as tables and diagrams The second aim of the book is to show the reader how to separate skarn rocks found in W Sn bearing environments into those produced by metamorphic isochemical processes metamorphic skarns which are uneconomic and those produced by the introduction and exchange of components from an ore solution ore skarn W Sn skarns are also separated into genetically logical subdivisions so that if a deposit or a specific geological environment can be identified then skarn zonation or the potential of finding specific skarn types can be predicted This is particularly important to the practising exploration geologist because often only a small part of a skarn or only certain skarn types contain economic mineralization In addition the book provides an insight into how to assess where mineralogical complications may occur especially with respect to Sn skarns and in which environments such complications may be expected It also provides enough information for the reader to be able to conceptualize suitable models for W Sn skarns based on primary data *Geomechanics and Geodynamics of Rock Masses, Volume 1* Vladimir Litvinenko, 2018-05-20 This book is Volume 1 of the EUROCK 2018 proceedings Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations

Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK Introducing Physical Science, Grades 4 - 6 Shireman,2008-09-03 Connect students in grades 4 6 with science using Introducing Physical Science This 128 page book helps students who struggle with the basic concepts of physical science The activities cover topics such as graphing and interpreting graphed data the use of scientific instruments to collect data buoyancy sound vibrations temperature gravity and magnetism To supplement reading the book includes specific directions that make multisyllabic words easier to understand and pronounce The reading exercises are perfect for use at school and home and the book supports National Science Education Standards Water-Rock Interaction Oleg V. Chudaev,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 **Cassell's Illustrated Family Paper** ,1860 *Water-rock Interaction* Richard B. Wanty,Robert R. Seal,2004 *Rock Minerals* Joseph Paxson Iddings,1911 **Bulletin** United States. Bureau of Mines,1960 **Rock Fracture and Blasting** Zong-Xian Zhang,2016-04-26 Rock Fracture and Blasting Theory and Applications provides the latest on stress waves shock waves and rock fracture all necessary components that must be critically analyzed to maximize results in rock blasting The positioning of charges and their capacity and sequencing are covered in this book and must be carefully modeled to minimize impact in the surrounding environment Through an explanation of these topics author Professor Zhang s experience in the field and his theoretical knowledge users will find a thorough guide that is not only up to date but complete with a unique perspective on the field Includes a rigorous exposition of Stress Waves and Shock Waves as well as Rock Fracture and Fragmentation Provides both Empirical and Hybrid Stress Blasting Modeling tools and techniques for designing effective blast plans Offers advanced knowledge that enables users to choose better blast techniques Includes exercises for learning and training in each chapter Rock Solid Faith Rosekidz,Mary J. Davis,2009-11 Take kids to a deeper understanding of the Christian life **Natural Gases of North America** B. Warren Beebe,Bruce Franklin Curtis,1968

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