

# DARK MINERALS WITH NON-METALLIC LUSTRE

H = hardness, SG = specific gravity

|                                                                      | Streak                        | Cleavage / Fracture                     | H        | SG         | Other Properties                                                                                                                                                       | Mineral Name and Formula                                                                                                |
|----------------------------------------------------------------------|-------------------------------|-----------------------------------------|----------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Hardness > 6.5<br>(harder than streak plate)                         | None (scratches streak plate) | No cleavage. Conchoidal fracture        | 7        | 3.5 to 4.3 | Vitreous to resinous lustre. Variable colour (red to reddish brown most common). Commonly seen as euhedral 12-sided crystals that may appear rounded if small in size. | <b>Garnet family</b><br>(Complex Ca, Fe, Mg, Al, Cr, Mn isolated silicate)                                              |
| Hardness 5.5 to 6.5<br>(harder than glass, softer than streak plate) | Colourless to pale green      | No cleavage. Conchoidal fracture.       | 6.5 to 7 | 3 to 3.3   | Olive green to yellow-green. Commonly form small, granular glassy crystals.                                                                                            | <b>Olivine</b><br>[(Fe,Mg) <sub>2</sub> SiO <sub>4</sub> ]                                                              |
|                                                                      | Colourless to pale green      | 2 planes: 1 perfect, 1 poor, not at 90° | 6 to 7   | 3.3        | Pale green - yellow to dark green. Pistachio green common.                                                                                                             | <b>Epidote</b><br>(Complex Ca, Al, Fe, OH ring silicate)                                                                |
|                                                                      | Colourless to pale green      | 2 directions at ~90°                    | 5 to 6   | 3.2 to 3.4 | Greenish-black to shades of green. Commonly seen as vitreous black short prismatic crystals.                                                                           | <b>Pyroxene family (augite)</b><br>(Ca,Na)(Mg,Fe,Al,Ti)<br>(Si,Al) <sub>2</sub> O <sub>6</sub>                          |
|                                                                      | Colourless to pale green      | 2 directions not at 90° (56° and 124°)  | 5 to 6   | 3 to 3.4   | Greenish-black to shades of green. Commonly seen as vitreous black elongate crystals.                                                                                  | <b>Amphibole family (hornblende)</b><br>(Ca, Na)(2-3)(Mg, Fe, Al, Si) <sub>7</sub> O <sub>22</sub> (OH, F) <sub>2</sub> |
|                                                                      | White                         | 2 directions at ~90°                    | 6        | 2.6        | Variable colour (white to dark grey). Labradorite commonly dark blue-grey and iridescent. Striations on some faces.                                                    | <b>Feldspar family (anorthite)</b><br>(CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> )                               |
|                                                                      | Distinct red-brown            | No cleavage                             | 5 to 6.5 | 5.3        | Typically earthy lustre and red-brown colour. Rare steel grey variety has metallic lustre (specular hematite).                                                         | <b>Hematite</b><br>(Fe <sub>2</sub> O <sub>3</sub> )                                                                    |
| Hardness 2.5 to 5.5                                                  | Pale yellow                   | 6 good cleavage directions              | 3.5 to 4 | 4          | Submetallic or resinous lustre. Yellow, red, green, brown, and black varieties possible. Streak smells like sulphur.                                                   | <b>Sphalerite</b><br>(ZnS)                                                                                              |
| Hardness < 2.5<br>(softer than fingernail)                           | Greenish-brown                | Perfect in one direction                | 2.5 to 3 | 3          | Dark-coloured (brown to black), flakes into thin elastic sheets                                                                                                        | <b>Biotite</b><br>(K(Mg,Fe) <sub>3</sub> AlSi <sub>3</sub> O <sub>10</sub> (OH) <sub>2</sub> )                          |
|                                                                      | Yellow-brown                  | Rarely seen                             | 1 to 3   | 3.5        | Yellow-brown to dark brown, earthy lustre, powders easily. Often seen coating other minerals.                                                                          | <b>Limonite</b><br>(FeO(OH)·H <sub>2</sub> O)                                                                           |
|                                                                      | White or colourless           | Perfect in one direction, rarely seen   | 2 to 2.5 | 2.6 to 3.3 | Shades of green, mica-like mineral.                                                                                                                                    | <b>Chlorite</b><br>(Complex Fe-Mg phyllosilicate)                                                                       |

# Data Table Mineral Identification Laboratory Manual Minerals

**Bill W. Tillery**



## **Data Table Mineral Identification Laboratory Manual Minerals:**

*Laboratory Manual in Physical Geology* American Geological Institute, 2000 For majors and non majors in undergraduate lab courses for Introductory Geology and Physical Geology The best selling lab manual for undergraduate lab courses in Physical Geology or Introductory Geology for majors and non majors With contributions from more than 120 highly regarded geologists and geoscience educators and an exceptional illustration program by Dennis Tasa this user friendly laboratory manual focuses students on the basic principles of geology and their applications to everyday life in terms of natural resources natural hazards and human risks This edition pushes the frontiers of geologic education even further with the inclusion of four new computer based labs

**Laboratory Manual in Physical Geology** Richard M. Busch, American Geological Institute, National Association of Geoscience Teachers, 2006 Revised throughout for enhanced clarity and accuracy and with a greater emphasis on the process of science this user friendly best selling laboratory manual examines the basic principles of geology and their applications to everyday life Students are encouraged to view these principles in terms of natural resources natural hazards and human risks This trusted resource features contributions from highly regarded geologists and geoscience educators with an exceptional illustration program by Dennis Tasa

Laboratory Manual for Physical Geology Norris W. Jones, 2000-07 If it is important for you to incorporate the scientific method into your teaching this manual aims to help In every exercise there are scientific method boxes that provide students with insight into the relevance of the scientific method to the topic at hand The book also includes in greater depth problems a more challenging probe into certain issues They are more quantitative in nature and require more in depth critical thinking Internet exercises are also integrated throughout the text

Lab Manual T/a Human Physiology Bill W. Tillery, 2001-03

**A Practical Guide to Ore Microscopy—Volume 1** Ricardo Castroviejo, 2023-07-12 This book offers a guide to the microscopic study of metallic ores with reflected light It combines a rigorous approach with an attractive and easy to follow format using high quality calibrated photomicrographs to illustrate the use of color for ore identification The ore identification methodology is updated with systematic color analysis and the application of new multispectral reflectance datasets which offer an efficient tool for automated ore characterization In addition the first volume of this two part work discusses the essential gangue minerals Readers will gain familiarity with the method as they follow its application to over 200 selected minerals comprising the most important ore 150 and gangue 50 minerals which are described in the text Each entry includes an explanatory text with corresponding color photomicrographs for each of the most common microscope settings preceded by a table summarizing the ore's main properties and followed by spectral information in the visible and near infrared ranges specular reflectance values from 370 to 1000 nm Some uncommon strategic ores e.g columbotantalite coltan and monazite receive particular attention or are described for the first time with reflected light Lastly the book presents a learning strategy for beginners and students The approach is essentially practical focusing on the development of observation skills including self checking

through proposed practical tasks In addition the traditional use of determinative tables is critically reviewed and updated This book is part of a two volume work The second volume focuses on intergrowths textural analysis and interpretation as well as computer vision based automation and applications to ore processing geometallurgy The intended audience includes professionals and engineers dealing with mineral resources as well as postgraduate students The book also provides lifelong learning support for freelancers and a valuable reference resource for practical university teaching *EAS 220 Lab Book*,2007

**Rocks and Minerals** Barry Fried,Michael McDonnell,2000 Help your students actually do science and in the process truly understand science Hands on Science Rocks and Minerals offers 17 ready to use activities for exploring crystal structures types of rocks weathering geologic history and more Designed with the National Science Education Standards in mind these engaging high interest activities build greater conceptual understanding and promote important critical thinking and science process skills

**Sedimentology of Shale** Paul E. Potter,J. Barry Maynard,Wayne A. Pryor,2012-12-06 We wrote Sedimentology of Shale primarily because we lacked a handy reasonably comprehensive source of information and ideas about shales for students in our sedimentology program It was also our feeling that the time for shales to receive more study had finally arrived Sedimentology of Shale also seems very timely because today more sedimentologists are interested in shales Certainly in the last five years the pace of shale research has noticeably quickened because the role of shales as important sources of oil gas heavy metals and as a long understudied part of the earth's geologic history has been recognized Noteworthy developments include the elucidation of the importance of trace fossils in shales the discovery of thick sequences of overpressured shales in regions such as the Gulf Coast which have important implications for hydrocarbon migration and faulting the extension of the principles of metamorphic facies to the realm of low temperature diagenesis by study of the organic matter in shales and shales as ultimate sources for mineral deposits Accordingly we decided it was timely to write a book on shales In one respect however ours is an unusual book Most books in geology are produced after one or two decades of progress have been made in a field and attempt to summarize and evaluate that progress

Sand and Sandstone F. J. Pettijohn,P. E. Potter,R. Siever,2012-12-06 This book is the outgrowth of a week long conference on sandstone organized by the authors first held at Banff Alberta in 1964 under the auspices of the Alberta Association of Petroleum Geologists and the University of Alberta and again in 1965 at Bloomington Indiana under the sponsorship of the Indiana Geological Survey and the Department of Geology Indiana University A 2 page syllabus was prepared for the second conference and published by the Indiana Geological Survey Continuing interest in and demand for the syllabus prompted us to update and expand its contents The result is this book We hope this work will be useful as a text or supplementary text for advanced undergraduate and graduate courses in sedimentation sedimentary petrology or general petrology and perhaps will be helpful to the teachers of such courses Though we have focussed on sandstones we have necessarily included much of interest to students of all sediments We hope also that it will be a useful reference work for the professional geologist

especially those concerned with petroleum ground water and economic geology either in industry or government Because the subject is so closely tied to surface processes it may also be of interest to geo morphologists and engineers who deal with beaches and rivers where sand is in transit Materials Handbook François Cardarelli, 2013-11-11 Despite the several comprehensive series available in Material Sciences and their related fields it is a hard task to find grouped properties of metals and alloys ceramics polymers minerals woods and building materials in a single volume source book Actually the scope of this practical handbook is to provide to scientists engineers professors technicians and students working in numerous scientific and technical fields ranging from nuclear to civil engineering easy and rapid access to the accurate physico chemical properties of all classes of materials Classes used to describe the materials are i metals and their alloys ii semiconductors iii superconductors iv magnetic materials v miscellaneous electrical materials e g dielectrics thermocouple and industrial electrode materials vi ceramics refractories and glasses vii polymers and elastomers viii minerals ores meteorites and rocks ix timbers and woods and finally x building materials Particular emphasis is placed on the properties of the most common industrial materials in each class Physical and chemical properties usually listed for each material are i mechanical e g density elastic moduli Poisson s ratio yield and tensile strength hardness fracture toughness ii thermal e g melting point thermal conductivity specific heat capacity coefficient of linear thermal expansion spectral emissivities iii electrical e g resistivity dielectric permittivity loss tangent factor iv magnetic e g magnetic permeability remanence Hall constant v optical e g refractive indices reflective index vi electrochemical e g

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