

# Manual Of Mineral Science Book

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*Klein Miner Hamlin Paddock Cornelis Klein Ray J. Holmquist Ladislav Cemic*

first published in 1848 authored by j d dana the manual of mineral science now enters its 23rd edition this new edition continues in the footsteps of its predecessors as the standard textbook in mineralogy mineral science earth materials rocks and minerals courses this new edition contains 22 chapters instead of 14 as in the prior edition this is the result of having packaged coherent subject matter into smaller more easily accessible units each chapter has a new and expanded introductory statement which gives the user a quick overview of what is to come just before these introductions each chapter features a new illustration that highlights some aspect of the subject in that particular chapter all such changes make the text more readable user friendly and searchable many of the first 14 chapters are reasonably independent of each other allowing for great flexibility in an instructor's preferred subject sequence the majority of illustrations in this edition were re-rendered and/or redesigned and many new photographs mainly of mineral specimens were added new thoroughly revised lab manual isbn 13 978 0 471 77277 4 also published by John Wiley & Sons the thoroughly updated laboratory manual minerals and rocks exercises in crystal and mineral chemistry crystallography x-ray powder diffraction mineral and rock identification and ore mineralogy 3e is for use in the mineralogy laboratory and covers the subject matter in the same sequence as the manual of mineral science 23e

cd rom contains many animations that deal with three dimensional concepts brief text pages for 104 of the most common minerals diagrams illustrations etc

the subject of mineralogy is moving away from the traditional systematic treatment of mineral groups toward the study of the behaviour of minerals in relation to geological processes a knowledge of how minerals respond to a changing geological environment is fundamental to our understanding of many dynamic earth processes by adopting a materials science approach an introduction to mineral sciences explains the principles underlying the modern study of minerals discussing the behaviour of crystalline materials with changes in temperature pressure and chemical environment the concepts required to understand mineral

behaviour are often complex but are presented here in simple non mathematical terms for undergraduate mineralogy students after introductory chapters describing the principles of diffraction imaging and the spectroscopic methods used to study minerals the structure and behaviour of the main groups of rock forming minerals are covered and the role of defects in the deformation and transformation of a mineral are explained the energy changes and the rate of transformation processes are introduced using a descriptive approach rather than attempting a complete and rigorous treatment of the thermodynamics and kinetics examples and case histories from a range of mineral groups are set in an earth science context such that the emphasis of this book is to allow the student to develop an intuitive understanding of the structural principles controlling the behaviour of minerals

the classic in the field since 1848 this extraordinary reference offers readers unsurpassed coverage of mineralogy and crystallography the book is known for integrating complete coverage of concepts and principles with a more systematic and descriptive treatment of mineralogy the revised edition now includes a cd rom to let readers see the minerals and crystals while also viewing chemical composition symmetry and morphological crystallography

contains well praised mineralogy tutorials 2 0 cd rom icons appear in the book where the cd rom is appropriate for exploration all references have been completely updated

this title has been published for a longer period than any other title at wiley since 1848 it has been the premier mineralogy textbook on the market time tested comprehensive and well organized the manual of mineral science 24e is the ideal textbook for an introductory mineralogy course it covers all aspects of mineralogy including crystallography and crystal chemistry

the fundamental concepts of mineralogy and petrology are explained in this highly illustrated full color textbook to create a concise overview for students studying earth materials the relationship between minerals and rocks and how they relate to the broader earth materials and environmental sciences is interwoven throughout beautiful photos of specimens and crystal maker s 3 d illustrations

allow students to easily visualize minerals rocks and crystal structures review questions at the end of chapters allow students to check their understanding the importance of earth materials to human cultural development and the hazards they pose to humans are discussed in later chapters this ambitious wide ranging book is written by two world renowned textbook authors each with over 40 years of teaching experience who bring that experience to clearly convey the important topics

designed specifically for one semester courses this beautifully illustrated textbook explains the key concepts in mineralogy and petrology

the thoroughly updated laboratory manual minerals and rocks exercises in crystal and mineral chemistry crystallography x ray powder diffraction mineral and rock identification and ore mineralogy 3e is for use in the mineralogy laboratory and covers the subject matter in the same sequence as the manual of mineral science 23e

thermodynamics is an important tool to interpreting the conditions at which natural geomaterial equilibrate it allows one to determine for example the equilibrium pressures and temperatures and the nature and chemical composition of phases involved mineralogical and petrological processes simple chemical model systems which are often studied in the laboratory in order to understand more complicated natural systems generally consist of few chemical components in order to use phase equilibrium results obtained from model systems for interpreting the conditions of formation of natural geologic materials extrapolations in compositional space and other p t conditions are often required this can only be done using the mathematical formalism that is offered by thermodynamics a number of excellent books on thermodynamics with regards to the fields of mineralogy petrology and geochemistry have been published over past 40 years many of them are however written for more advanced students and experienced researchers and it is often assumed that the reader already possesses some prior knowledge of the subject consequently discussions and presentations of basic concepts which are necessary for beginning students and others attempting to learn thermodynamics for the first time are often given short shrift therefore the aim of this book is to explain the basic principles of thermodynamics at an introductory level while

trying not to lose much of the mathematical rigor that is one of the most important and central aspects of this subject

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