



Crystal Identification With The Polarizing Microscope

By S.A. Morse

Springer. Paperback. Condition: New. This item is printed on demand. 358 pages. This text describes the theory and practice of optical mineralogy in terms useful to all practitioners from the beginning student to the professional in field and laboratory geology and industrial and environmental mineralogy. The authors aim is to provide the simplest possible access to the most powerful techniques of optical crystal identification. The book emphasizes useful practical theoretical material and methods for studying both thin sections of rocks and immersion of mineral grains in refractive index liquids. It contains original research results found in no other text. A major goal of the text is to allow precise determination of refractive index and the essential composition of crystals belonging to important mineral groups such as olivine, feldspar, and pyroxene. New methods for achieving this are developed for both white light and colored light of variable wavelength. Among the books unique features is the color fringe chart developed by Prof. Morse for estimating both the direction and degree of mismatch between the refraction index of a crystal and that of the surrounding liquid medium in the immersion method. Further, a new algebraic treatment of the dispersion method allows a high...



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