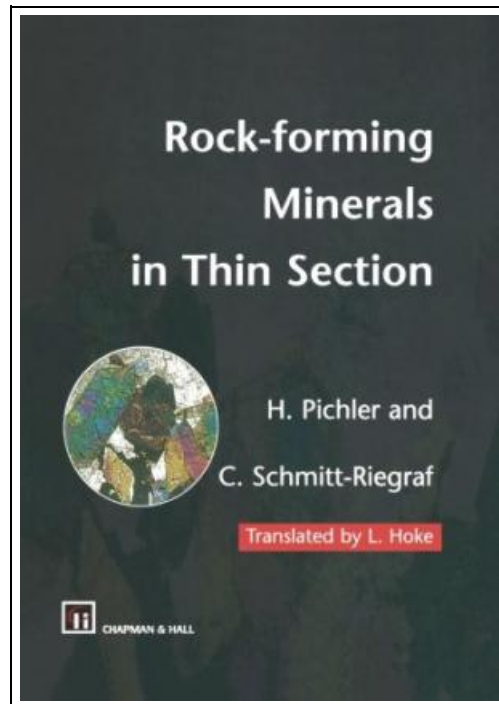


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Reviews

This composed publication is fantastic. This is certainly for all those who state that there was not a well worth reading through. You will not truly feel monotony at whenever you want of your respective time (that's what catalogs are for regarding when you ask me). (Prof. Mark Ratke Jr.)

ROCK-FORMING MINERALS IN THIN SECTION



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Condition: New. Publisher/Verlag: Springer Netherlands | Identification of rock-forming minerals in thin section is a key skill needed by all earth science students and practising geologists. This translation of the completely revised and updated German second edition (by Leonore Hoke, Institute of Geological and Nuclear Sciences, New Zealand) provides a comprehensive guide to identifying 140 of the most important rock-forming mineral species. The book is divided into three main parts. Part A is a practical guide to the fundamentals of crystal optics, polarization microscopy and the practical use of microscopes. Part B gives a detailed description of the characteristic optical features, special features, and the paragenesis of the most common rock-forming minerals. This well-illustrated part is divided into opaque minerals, isotropic, uniaxial and optical biaxial mineral groups. Part C contains identification tables for the minerals and diagrams showing the international classification of magmatic rocks, as well as a colour plate section showing crystal forms of minerals. The book will provide an invaluable guide to all undergraduate earth scientists, as well as to professional geologists requiring an overview of mineral identification in thin section. | A Optical Crystallography.- 1 The polarizing microscope.- 1.1 Microscope components and their function.- 1.2 Accessory equipment.- 1.3 Adjustment of the microscope.- 1.3.1 Centring the condensing lens.- 1.3.2 Centring the objective.- 2 Orthoscopic observations.- 2.1 Observations with one polarizer.- 2.1.1 Light impervious (opaque) minerals and substances.- 2.1.2 Transparent minerals and substances.- 2.1.2.1 Characteristic crystal shapes.- 2.1.2.2 Cleavage.- 2.1.2.3 Colour and pleochroism.- 2.1.2.4 Refractive index: relief, chagrin, and the Becke line.- 2.2 Observations under crossed polars.- 2.2.1 Passage of light through isotropic media.- 2.2.2 Passage of light through anisotropic media.- 2.2.2.1 Birefringence and polarization.- 2.2.2.2 The indicatrix model.- 2.2.2.3 Optical character of elongation.- 2.2.2.4 Parallel, symmetric and oblique extinction.- 2.2.2.5 Twinning.- 3 Observations under conoscopic light.- 3.1 Introduction.- 3.2...



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