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Minerals: Their Constitution And Origin.

By Wenk, Hans-rudolf & Bulakh, Andrei.

Cambridge University Press, Cambridge, 2006. Softcover. Book Condition: New. Reprinted edition with corrections. 646 pages. Softcover. New book. MINERALOGY. An introduction to mineralogy for undergraduate and graduate students in the fields of geology and materials science. It has been designed for a one-semester course and covers all aspects of mineralogy in an up-to-date and integrated style. The book is divided into five parts that discuss structure and bonding within minerals; mineral physics and optical properties; modes of mineral formation and thermodynamics; mineral groups within the context of mineral-forming environments; and the application of mineralogy for the exploitation of metal deposits, gems, and cement. Identification of minerals in hand specimen and under the microscope are also covered. Throughout the text emphasis is placed on linking mineral properties with broader geological processes, and on conveying their economic value. Containing beautiful colour photographs, handy reference tables and a glossary of terms, this textbook will be an indispensable guide for the next generation of mineralogy students. The contents of the book is as follows: Part I. Structural Features of Minerals: 1. Subject and history of mineralogy; 2. Elements, bonding, simple structures and ionic radii; 3. The lattice concept and description of crystal structures; 4....


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