Minerals
Their Constitution and Origin

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A comprehensive and modern textbook for courses in geology and materials science. *Minerals: Their Constitution and Origin* will form an indispensable guide for the next generation of mineralogy students.

**Key Features**

- Designed for undergraduate courses and covers all aspects of mineralogy in an up-to-date and integrated style.
- Contains many stunning colour photographs, handy reference tables and a glossary of terms.
- Also includes identification of minerals in hand specimen and under the microscope.
- Mineral properties are linked with broader geological processes.
- Combines discussion of mineral groups with geologic occurrence and economic exploitation.

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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. Macroscopic symmetries: crystal morphology; 5. Crystal growth and aggregation; 6. Isomorphism, polymorphism and crystalline defects;

Part II. Physical Investigation of Minerals:

Part III. Variety of Minerals and Mineral-forming Processes:

Part IV. A Systematic Look at Mineral Groups

Part V. Applied Mineralogy

Appendices
Determinative tables for hand specimen identification; Determinative tables for optical mineralogy; Glossary; Index.
A key textbook for mineralogy courses

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www.cambridge.org/minerals