

BOOK REVIEW

*MATERIAL BEHAVIOUR OF ANISOTROPIC SOLIDS -
THERMAL AND ELECTRICAL PROPERTIES*, by W. Dreyer,
Clausthal, FRG

Applied Mineralogy, Vol. 7, edited by V. D.
Frechette (Alfred, N.Y., U.S.A.), H. Kirsch (Essen,
FRG), L. B. Socnd (Worcester, Mass., U.S.A.) and
F. Trojer (Leoben, Austria)

Springer-Verlag, Wien, New York, 1974, 295 pages,
121 figures, \$51.30 (in German)

The introduction to this seven-chapter book deals with the fundamentals of anisotropy and texture research on rocks and minerals. Following this, there is a detailed treatise on the mathematical basis for the determination of the orientation distribution function. The next two chapters give methods and measured data of the anisotropic thermal dilation and thermal conductivity. The electrical resistivity and dielectrical susceptibility of crystals are treated in the remaining chapters of the book and a discussion on the models needed for the explanation of the measured results is then given.

The author has made a successful attempt in collecting data scattered throughout the extensive literature on anisotropic thermal and electrical properties of rocks and minerals. The dimensions and normalization have also been unified.

For the non-specialist, the detailed introduction and examples offer a clearly understandable representation of the partly abstract mathematical theory necessary for the determination and interpretation of the results. The book should be interesting to the reader not specialized in this field, and is therefore highly recommended.

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