



**Far-Infrared Properties of Solids: Proceedings of a
NATO Advanced Study Institute, held in Delft,
Netherland, August 5-23, 1968 (Optical Physics
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This book provides an account of modern aspects relating far infrared radiation to properties of solids; it encompasses both theoretical and experimental considerations. Written at the graduate level, it attempts a threefold purpose; an indication of the breadth of the subject, an in-depth examination of important areas, and reference material to complement a text for a course. The treatment and organization of material here is compatible with a preceding volume of this series on "Optical Properties of Solids." Chapters 1-6 present material concerned principally with experimental considerations necessary to the carrying out of measurements in the far infrared spectral region. They also serve to provide considerable introductory material for the remaining chapters which deal with various areas that offer theoretical treatments utilizing and understanding far infrared properties of solids. Several lectures presented at the Institute could not be included in this book for two reasons: (i) Final versions of the lecture notes suitable for publication never arrived from several lecturers; (ii) Some materials were deliberately left out from this book as they were also presented at an earlier NATO Institute and form part of a preceding volume edited by us in this series. In particular, it is recommended that Chapters 14 and 15, viz., infrared and Raman spectra due to lattice vibrations by S. S. Mitra and impurity induced lattice absorption by L. Genzel in "Optical Properties of Solids" be read concurrently with the present volume.

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