

CONTENTS

| | |
|--|------|
| Preface to the series..... | vii |
| Foreword..... | ix |
| Contents | xiii |
| 1. Phonon radiation across solid/solid interfaces within the acoustic mismatch model..... | 1 |
| <i>O. Weis</i> | |
| 2. Phonon focusing | 51 |
| <i>H.J. Maris</i> | |
| 3. Phonon propagation with frequency down-conversion | 91 |
| <i>Y.B. Levinson</i> | |
| 4. Crossing effects in phonon scattering | 145 |
| <i>L.J. Challis</i> | |
| 5. Phonon generation, transport and detection through electronic states in solids | 227 |
| <i>W.E. Bron</i> | |
| 6. Detection of high-frequency phonons by phonon-induced fluorescence..... | 277 |
| <i>K.F. Renk</i> | |
| 7. Optical generation and detection of 29 cm^{-1} phonons in ruby | 317 |
| <i>K.F. Renk</i> | |
| 8. Multiple resonant scattering of the 29 cm^{-1} acoustic phonons in optically excited ruby..... | 373 |
| <i>A.A. Kaplyanskii and S.A. Basun</i> | |
| 9. Phonon wind in highly excited semiconductors..... | 455 |
| <i>L.V. Keldysh and N.N. Sibeldin</i> | |
| Author index | 687 |
| Subject index..... | 703 |
| Cumulative index | 713 |