



Edited by  
Humphrey J. Maris

# Phonon Scattering in Condensed Matter

# Phonon Scattering In Condensed Matter

**Otfried Madelung**



## **Phonon Scattering In Condensed Matter:**

*Phonon Scattering in Condensed Matter* Humphrey Maris, 2012-12-06 The Third International Conference on Phonon Scattering in Condensed Matter was held at Brown University Providence Rhode Island from August 28 31 1979 The previous conferences in this series were held at Nottingham in 1975 and in France at Paris and Ste Maxime in 1972 Until about 15 years ago phonon scattering was studied almost exclusively by measurements of thermal conductivity This approach has the severe limitation that the result obtained for the phonon scattering rate is actually the average of the scattering for all of the phonons in the sample Thus no distinction can be made between phonons of different polarization direction of propagation or energy During the 1960 s several significant developments occurred The most important of these was the application by Von Gutfeld and Nethercot of the heat pulse method previously used only in liquid helium to the investigation of phonons in crystals This approach makes possible the study of the propagation and scattering of phonons of known polarization and propagation direction The early heat pulse experiments used phonon generators which produced phonons having a broad distribution of energies and in addition the phonon detectors were sensitive to phonons of all energies

**Phonon Scattering in Condensed Matter** Ansel C. Anderson, James P. Wolfe, 1986 **Phonon Scattering in Condensed Matter** W. Eisenmenger, K. Lassmann, S. Döttinger, 2012-12-06 This volume contains the proceedings of the Fourth International Conference on Phonon Scattering in Condensed Matter held from August 22 26 1983 at the University of Stuttgart The preceding conferences were organized at Saint Maxime and Paris in 1972 at the University of Nottingham in 1975 and at the Brown University Providence Rhode Island in 1979 The Stuttgart conference like the preceding conferences was mainly concerned with propagating high frequency acoustic phonons mechanical waves and heat up to the lattice limiting frequency Lattice dynamics optical phonons phase transitions etc were included as far as they are involved in acoustical phonon scattering propagation and generation In this context the conference covered all aspects of acoustical phonon physics especially generation of phonons propagation scattering and detection Since acoustic phonons participate in most energy transfer processes in solids and liquids the field of interest is growing rapidly Therefore exciting new developments of acoustic phonon physics could be presented at the Stuttgart conference as well as important progress with respect to well known problems as for example the Kapitza resistance Two hundred and six scientists from 21 countries attended the conference Thirteen invited papers and 105 contributed papers with 34 as posters were presented The discussions are included in this volume A discussion session on large wave vector phonons was organized and chaired by V Narayanamurti A discussion session on phonon scattering at interfaces was organized and chaired by R O Pohl **Phonon Scattering in Condensed Matter** Wolfgang Eisenmenger, Kurt Lassmann, Siegfried Döttinger, 1984 **Phonon Scattering in Condensed Matter** International Conference on Phonon Scattering in C, 1980 [Phonon Scattering in Condensed Matter VII](#) Michael Meissner, Robert O Pohl, 1993-04-29 [Phonon Scattering in Condensed Matter](#) Wolfgang

Eisenmenger, International Conference on Phonon Scattering in Condensed Matter, 1986      Phonon Scattering in Condensed Matter Michael Meissner, Robert O. Pohl, 1993      **Phonon Scattering in Condensed Matter VII** Michael Meissner, Robert O. Pohl, 1993 This volume contains the proceedings of the Seventh International Conference on Phonon Scattering in Condensed Matter held August 3-7 1992 at Cornell University in Ithaca NY USA The preceding conferences were held at St Maxime and Paris France 1972 Nottingham UK 1975 Providence USA 1979 Stuttgart Germany 1983 Urbana USA 1986 and Heidelberg Germany 1989 The Heidelberg conference was held jointly with the Third International Conference on Phonon Physics The next conference to be held in August 1995 in Sapporo Japan and hosted by Professor T Nakayama and his colleagues will also be such a joint conference This conference was attended by 227 scientists from 27 countries and covered all aspects of phonon scattering in condensed matter ranging from the more traditional topics of thermal conductivity Kapitza resistance and ballistic phonon propagation to the recently added topics such as electron phonon interaction in high T<sub>c</sub> superconductors the use of phonons in particle detection and phonons in confined geometries The 207 papers arranged in 11 chapters in this volume are a cross section of the present activities in the quite obviously vibrant field of phonons and their interactions      *Phonon Scattering in Condensed Matter V* Ansel Cochran Anderson, James Phillip Wolfe, 2012-12-06 This volume contains the proceedings of the Fifth International Conference on Phonon Scattering in Condensed Matter held June 2-6 1986 at the University of Illinois at Urbana Champaign The preceding conferences were held at St Maxime and Paris in 1972 at the University of Nottingham in 1975 at Brown University in 1979 and at the University of Stuttgart in 1983 The Illinois conference dealt with both traditional and newly developing topics in the area of phonon scattering Papers were presented on phonon scattering in glassy and crystalline dielectrics semiconductors metals both normal and superconducting and in the areas of phonon imaging large wave vector phonons optical techniques and new experimental methods The 12 invited papers and 100 contributed papers were presented by the 125 scientists from 14 countries A citation was presented to Professor Paul Klemens of the University of Connecticut for his pioneering contributions to the physics of phonon scattering in solids Paul Gustav Klemens Born Vienna 1925 B Sc Sydney 1946 D Phil Oxford 1950 National Standards Lab Sydney 1950 1959 Westinghouse Research Labs Pittsburgh 1964 1969 Univ of Connecticut 1967 Fellow American Physical Society British Institute of Physics Physical Society A long career dedicated to the understanding of thermal transport Few papers are published on phonon thermal transport that do not reference his work      **Phonon scattering in condensed matter** ,      **Phonon Scattering in Condensed Matter VII** Michael Meissner, Robert O. Pohl, 2012-12-06 This volume contains the proceedings of the Seventh International Conference on Phonon Scattering in Condensed Matter held August 3-7 1992 at Cornell University in Ithaca NY USA The preceding conferences were held at St Maxime and Paris France 1972 Nottingham UK 1975 Providence USA 1979 Stuttgart Germany 1983 Urbana USA 1986 and Heidelberg Germany 1989 The Heidelberg conference was held jointly with the Third International Conference on Phonon Physics The next conference

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**Phonon Scattering in Condensed Matter** International Conference on Phonon Scattering in Condensed Matter, Wolfgang Eisenmenger, 1984

Proceedings of the 10th International Conference on Phonon Scattering in Condensed Matter Martin N. Wybourne, 2002

Phonon Scattering in Condensed Matter VII Michael Meissner, Robert O. Pohl, 1993-04-29 This volume contains the proceedings of the Seventh International Conference on Phonon Scattering in Condensed Matter held August 3-7 1992 at Cornell University in Ithaca NY USA The preceding conferences were held at St Maxime and Paris France 1972 Nottingham UK 1975 Providence USA 1979 Stuttgart Germany 1983 Urbana USA 1986 and Heidelberg Germany 1989 The Heidelberg conference was held jointly with the Third International Conference on Phonon Physics The next conference to be held in August 1995 in Sapporo Japan and hosted by Professor T Nakayama and his colleagues will also be such a joint conference This conference was attended by 227 scientists from 27 countries and covered all aspects of phonon scattering in condensed matter ranging from the more traditional topics of thermal conductivity Kapitza resistance and ballistic phonon propagation to the recently added topics such as electron phonon interaction in high T<sub>c</sub> superconductors the use of phonons in particle detection and phonons in confined geometries The 207 papers arranged in 11 chapters in this volume are a cross section of the present activities in the quite obviously vibrant field of phonons and their interactions

**13th International Conference of Phonon Scattering in Condensed Matter**, 2011 *Proceedings of the Conference on Phonon Scattering in Condensed Matter (Phonons 2004)* Alexander Kaplyanskii, Andrey Akimov, Viktor Bursian, 2006-05-05

The 11th International Conference on Phonon Scattering Phonons 2004 was held in St Petersburg Russia 25-30 July 2004 Both theoretical and experimental results on studies in phonon physics and related phenomena were presented and discussed Main topical areas were Phonons in nanostructures coherent phonons phononic crystals and superlattices ultrafast acoustics solitons and nonlinear phenomena electron phonon interaction phonons in glasses and disordered materials phonon transport and imaging quantum fluids lattice dynamics and Raman and neutron scattering

**PHONONS 2012** Kevin P. Pipe, College of Engineering (Ann Arbor, MI), 2012 **Introduction to Solid-State Theory** Otfried Madelung, 2012-12-06 Introduction to Solid State Theory is a textbook for graduate students of physics and materials science It also provides the theoretical background needed by physicists doing research in pure solid state physics and its applications to electrical engineering The fundamentals of solid state theory are based on a description by delocalized and localized states and within the concept of

delocalized states by elementary excitations The development of solid state theory within the last ten years has shown that by a systematic introduction of these concepts large parts of the theory can be described in a unified way This form of description gives a pictorial formulation of many elementary processes in solids which facilitates their understanding

**12th International Conference on Phonon Scattering in Condensed Matter (PHONONS 2007)** Bernard Perrin, 2007

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