

Long wave polar modes in semiconductor heterostructures

**C. Trallero-Giner,
R. Pérez-Alvarez
and F. García-Moliner**

Long Wave Polar Modes In Semiconductor Heterostructures

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Pérez-Alvarez, F. García-Moliner, 1998-05-21 Long Wave Polar Modes in Semiconductor Heterostructures is concerned with the study of polar optical modes in semiconductor heterostructures from a phenomenological approach and aims to simplify the model of lattice dynamics calculations. The book provides useful tools for performing calculations relevant to anyone who might be interested in practical applications. The main focus of Long Wave Polar Modes in Semiconductor Heterostructures is planar heterostructures, quantum wells or barriers, superlattices, double barrier structures, etc., but there is also discussion on the growing field of quantum wires and dots. Also to allow anyone reading the book to apply the techniques discussed for planar heterostructures, the scope has been widened to include cylindrical and spherical geometries. The book is intended as an introductory text which guides the reader through basic questions and expands to cover state-of-the-art professional topics. The book is relevant to experimentalists wanting an instructive presentation of a simple phenomenological model and theoretical tools to work with, and also to young theoreticians by providing discussion of basic issues and the basis of advanced theoretical formulations. The book also provides a brief respite on the physics of piezoelectric waves as a coupling to polar optical modes.

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Of The 22nd International Conference (In 3 Volumes) David J Lockwood,1995-01-20 These proceedings review the progress in most aspects of semiconductor physics including those related to materials processing and devices The conference continues the tradition of the ICPS series and these volumes include state of the art lectures The plenary and invited papers address areas of major interest These volumes will serve as excellent material for researchers in semiconductor physics and related fields **Scientific and Technical Aerospace Reports** ,1995 **Surface Waves** Farzad Ebrahimi,2018-05-02

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