

# Elementary Excitations in Solids, Molecules, and Atoms Part B

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 Springer

# Elementary Excitations In Solids Part A

**Jozef T. Devreese (ed)**



## **Elementary Excitations In Solids Part A:**

**Elementary Excitations In Solids** David Pines, 2018-03-05 This text continues to fill the need to communicate the present view of a solid as a system of interacting particles which under suitable circumstances behaves like a collection of nearly independent elementary excitations In addition to introducing basic concepts the author frequently refers to experimental data Usually both the basic theory and the applications discussed deal with the behavior of simple metals rather than the complicated metals such as the transition metals and the rare earths Problems have been included for most of the chapters Elementary Excitations in Solids, Molecules, and Atom J. T. Devreese, A. B. Kunz, T. C. Collins, 2013-11-11 The Advanced Study Institute on Elementary Excitations in Solids Molecules and Atoms was held at the University of Antwerp U I A from June 18th till June 30th 1973 The Institute was sponsored by NATO Co sponsors were Agfa Gevaert N V Mortsel Belgium Bell Telephone Mfg Co Antwerp Belgium I B M Belgium N V Brussels Belgium the National Science Foundation Washington D C U S A and the University of Antwerp U I A A total of 120 lecturers and participants attended the Institute Over the last few years substantial progress has been made in the description of the elementary excitations of the electronic and vibrational systems and their interactions Parallel with this the experimentalists have obtained outstanding results partly as a result of availability of coherent light sources from the far infrared through the visible region and partly because of the availability of synchrotron radiation sources in the soft X ray region The results of today will lead to further progress over the next years It was the purpose of this NATO Advanced Study Institute to present a state of the art namely a survey of experiment and theory *Elementary Excitations in Solids, Molecules, and Atoms* Jozef T. Devreese, A. B. Kunz, T. C. Collins, 2012-12-06 The Advanced Study Institute on Elementary Excitations in Solids Molecules and Atoms was held at the University of Antwerp U I A from June 18th till June 30th 1973 The Institute was sponsored by NATO Co sponsors were Agfa Gevaert N V Mortsel Belgium Bell Telephone Mfg Co Antwerp Belgium the National Science Foundation Washington D C U S A and the University of Antwerp U I A A total of 120 lecturers and participants attended the Institute Over the last few years substantial progress has been made in the description of the elementary excitations of the electronic and vibrational systems and their interactions Parallel with this the experimentalists have obtained outstanding results partly as a result of availability of coherent light sources from the far infrared through the visible region and partly because of the availability of synchrotron radiation sources in the soft X ray region The results of today will lead to further progress over the next years It was the purpose of this NATO Advanced Study Institute to present a state of the art namely a survey of experiment and theory

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**Elementary Excitations in Solids, Molecules, and Atoms** Jozef T. Devreese (ed), 1974 Elementary Excitations in Solids, Molecules, and Atom Springer, 2014-01-15 *Elementary Excitations in Solids* David Pines, 1977 *Basic Notions Of Condensed Matter Physics* Philip W. Anderson, 2018-03-09 First Published in 2018 Routledge is an imprint of Taylor Francis an Informa company

**Collective Excitations in Solids** Baldassare Di Bartolo, Joseph Danko, 2012-12-06 This book presents an account of the NATO Advanced Study Institute on Collective Excitations in Solids held in Erice Italy from June 15 to June 29 1981 This meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Centre for Scientific Culture The objective of the Institute was to formulate a unified and coherent treatment of various collective excitation processes by drawing on the current advances in various branches of the physics of the solid state A total of 74 participants came from 54 laboratories and 20 nations Australia Belgium Burma Canada China France F R Germany Greece Israel Italy Mexico The Netherlands Pakistan Poland Portugal Romania Switzerland Turkey The United Kingdom and The United States The secretaries of the course were Joseph Danko for the scientific aspects and Nino La Francesca for the administrative aspects of the meeting Forty four lectures divided in eleven series were given Nine long seminars and eight short seminars were also presented In addition two round table discussions were held

*Equilibrium and Non-equilibrium Statistical Mechanics* Carolyn M. Van Vliet, 2008 This book encompasses our current understanding of the ensemble approach to many body physics phase transitions and other thermal phenomena as well as the quantum foundations of linear response theory kinetic equations and stochastic processes It is destined to be a standard text for graduate students but it will also serve the specialist researcher in this fascinating field some more elementary topics have been included in order to make the book self contained The historical methods of J Willard Gibbs and Ludwig Boltzmann applied to the quantum description rather than phase space are featured The tools for computations in the microcanonical canonical and grand canonical ensembles are carefully developed and then applied to a variety of classical and standard quantum situations After the language of second quantization has been introduced strongly interacting systems such as quantum liquids superfluids and superconductivity are treated in detail For the connoisseur there is a section on diagrammatic methods and applications In the second part dealing with non equilibrium processes the emphasis is on the quantum foundations of Markovian behaviour and irreversibility via the Pauli Van Hove master equation Justifiable linear

response expressions and the quantum Boltzmann approach are discussed and applied to various condensed matter problems. From this basis the Onsager-Casimir relations are derived together with the mesoscopic master equation, the Langevin equation, and the Fokker-Planck truncation procedure. Brownian motion and modern stochastic problems such as fluctuations in optical signals and radiation fields briefly make the round.

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