

Related topics

Semiconductor, band theory, forbidden band, intrinsic conduction, extrinsic conduction, impurity depletion, valence band, conduction band.

Principle

The conductivity of a germanium testpiece is measured as a function of temperature. The energy gap is determined from the measured values.

Equipment

Hall effect module,	11801.00	1
Hall effect, undot.-Ge. carrier board	11807.01	1
Power supply 0-12 V DC/6 V, 12 V AC	13505.93	1
Tripod base -PASS-	02002.55	1
Support rod -PASS-, square, $l = 250$ mm	02025.55	1
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Tasks

1. The current and voltage are to be measured across a germanium test-piece as a function of temperature.

2. From the measurements, the conductivity σ is to be calculated and plotted against the reciprocal of the temperature T . A linear plot is obtained, from whose slope the energy gap of germanium can be determined.

Set-up and procedure

The experimental set-up is shown in Fig.1. The test piece on the board has to be put into the hall-effect-modul via the guide-groove. The module is directly connected with the 12 V- output of the power unit over the ac-input on the back-side of the module.

The voltage across the sample is measured with a multimeter. Therefore, use the two lower sockets on the front-side of the module. The current and temperature can be easily read on the integrated display of the module. Be sure, that the display works in the temperature mode during the measurement. You can change the mode with the "Display"-knob. At the beginning, set the current to a value of 5 mA. The current remains nearly constant during the measurement, but the voltage changes according to a change in temperature. Set the display in the temperature mode, now. Start the measurement by activating the heating coil with the "on/off"-knob on the back-side of the module. Determine the change in voltage dependent on the change in temperature for a temperature range of room temperature to a maximum of 170°C. You will receive a typical curve as shown in Fig.2.

Fig.1: Experimental set-up for the determination of the band gap of germanium



Physics Lab Manual Band Gap

Richard Ocaya



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A Practical Guide to Geometric Regulation for Distributed Parameter Systems Eugenio

Aulisa, David Gilliam, 2015-06-18 A Practical Guide to Geometric Regulation for Distributed Parameter Systems provides an introduction to geometric control design methodologies for asymptotic tracking and disturbance rejection of infinite dimensional systems The book also introduces several new control algorithms inspired by geometric invariance and asymptotic attraction for a wide range of dynamical control systems The first part of the book is devoted to regulation of linear systems beginning with the mathematical setup general theory and solution strategy for regulation problems with bounded input and output operators The book then considers the more interesting case of unbounded control and sensing Mathematically this case is more complicated and general theorems in this area have become available only recently The authors also provide a collection of interesting linear regulation examples from physics and engineering The second part focuses on regulation for nonlinear systems It begins with a discussion of theoretical results characterizing solvability of nonlinear regulator problems with bounded input and output operators The book progresses to problems for which the geometric theory based on center manifolds does not directly apply The authors show how the idea of attractive invariance can be used to solve a series of increasingly complex regulation problems The book concludes with the solutions of challenging nonlinear regulation examples from physics and engineering The Electronic Structure of Complex Systems P.

Phariseau, W.M. Temmerman, 2012-12-06 We present here the transcripts of lectures and talks which were delivered at the NATO ADVANCED STUDY INSTITUTE Electronic Structure of Complex Systems held at the State University of Ghent Belgium during the period July 12-23 1982 The aim of these lectures was to highlight some of the current progress in our understanding of the electronic structure of complex systems A massive leap forward is obtained in bandstructure calculations with the advent of linear methods The bandtheory also profited tremendously from the recent developments in the density functional theories for the properties of the interacting electron gas in the presence of an external field of ions The means of performing fast bandstructure calculations and the confidence in the underlying potential functions have led in the past five years or so to a wealth of investigations into the electronic properties of elemental solids and compounds The study of the trends of the electronic structure through families of materials provided invaluable insights for the prediction of new materials The detailed study of the electronic structure of specific solids was not neglected and our present knowledge of d and f metals and metal hydrides was reviewed For those systems we also investigated the accuracy of the one electron potentials in fine detail and we complemented this with the study of small clusters of atoms where our calculations are amenable to comparison with the frontiers of quantum chemistry calculations **Computational Liquid Crystal**

Photonics Salah Obayya, Mohamed Farhat O. Hameed, Nihal F. F. Areed, 2016-05-31 Optical computers and photonic integrated circuits in high capacity optical networks are hot topics attracting the attention of expert researchers and commercial technology companies Optical packet switching and routing technologies promise to provide a more efficient source of power and footprint scaling with increased router capacity integrating more optical processing elements into the

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