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Theory Defects Semiconductors Topics Applied

Semiconductor science and technology is the art of defect engineering. The theoretical modeling of defects has improved dramatically over the past decade. These tools are now applied to a wide range of materials issues: quantum dots, buckyballs, spintronics, interfaces, amorphous systems, and many others. This volume presents a coherent and detailed description of the field, and brings together leaders in theoretical research. Today's state-of-the-art, as well as tomorrow's tools, are ...

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Theory of Defects in Semiconductors | David A. Drabold ...

The "Defects in Semiconductors" Special Topic in Journal of Applied Physics presents a collection of papers that cover a broad range of materials, centered around the fundamental properties of defects. It covers topics on experimental and theoretical investigations of important point and line defects.

Defects in Semiconductors: Journal of Applied Physics: Vol ...

Systematic theoretical studies of impurities and defects in semiconductors (McCluskey and Haller, 2012) begun after World War II with the emergence of the fundamental components of solid-state electronics, in particular the transistor (Bardeen and Brattain, 1948, 1949; Shockley, 1949).

Frontiers | Perspectives on the Theory of Defects | Materials

ISBN: 9783540334002 3540334009: OCLC Number: 74650474: Description: xiii, 295 pages : illustrations. Contents: Foreword / Manuel Cardona --Defect theory: an armchair history / David A. Drabold, Stefan K. Estreicher --Supercell methods for defect calculations / Risto M. Nieminen --Marker-method calculations for electrical levels using Gaussian-orbital basis sets / J.P. Goss, M.J. Shaw, P.R ...

Theory of defects in semiconductors (Book, 2007) [WorldCat ...

Note: This Invited Tutorial is part of the Special Topic section "Defects in Semiconductors" guest-edited by Filip Tuomisto and Ilja Makkonen (Department of Applied Physics, Aalto University, Finland), and published in Journal of Applied Physics 119, 18 (2016).

Tutorial: Defects in semiconductors—Combining experiment ...

a result, the theory of defects in semiconductors has become quantitative in many respects. Today, more powerful theoretical approaches are still being developed. More importantly perhaps, the tools developed to study defects in semiconductors are now being adapted to approach many new challenges

Topics in Applied Physics Volume 104

1. Introduction. The beneficial and detrimental roles played by impurities and other defects in Si and Ge have been recognized since the early days of semiconductor technology .The first semiconductor devices were made from ultra-pure Ge crystals, but Si quickly replaced Ge as the semiconductor of choice because of its larger band gap and its ability to grow a stable insulating oxide .

Theory of defects in Si and Ge: Past, present and recent ...

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Theory of defects in semiconductors (eBook, 2007 ...

Defects in disordered (amorphous) semiconductors are discussed, with an emphasis on hydrogenated amorphous silicon. The general differences between defect phenomena in crystalline and amorphous hosts are described, and the special importance of the electron-phonon coupling is stressed.

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Theoretical predictions of electronic energy levels associated with s- and p-bonded substitutional point defects at (110) surfaces of InAs and other III-V semiconductors are presented and discussed. The specific defects considered for InAs are: anion and cation vacancies, the (native) antisite defects In As and As In, and 26 impurities.The predicted surface-defect deep levels are used ...

Theory of surface-defect states and Schottky barrier ...

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