

Luminescence Spectroscopy Of Semiconductors

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Staff View: Luminescence spectroscopy of semiconductors

The semiconductor luminescence equations (SLEs) describe luminescence of semiconductors resulting from spontaneous recombination of electronic excitations, producing a flux of spontaneously emitted light. This description established the first step toward semiconductor quantum optics because the SLEs simultaneously includes the quantized light-matter interaction and the Coulomb-interaction ...

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2. Experimental techniques of luminescence spectroscopy 3. Kinetic description of luminescence processes 4. Phonons and their participation in optical phenomena 5. Channels of radiative recombination in semiconductors 6. Nonradiative recombination 7. Luminescence of excitons 8. Highly excited semiconductors 9. Luminescence of disordered ...

Semiconductor luminescence equations - Wikipedia

Photoluminescence spectroscopy is a widely used technique for characterisation of the optical and electronic properties of semiconductors and molecules. In chemistry, it is more often referred to as fluorescence spectroscopy, but the instrumentation is the same.

Luminescence Spectroscopy of Semiconductors: Theory and ...

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In 2016, our group pioneered studies of electronic structure of the nanocrystalline inorganic semiconductors by solid-state synchronous

luminescence spectroscopy, Table 7. First, peaks in the synchronous luminescence spectra of calcium titanate CaTiO_3 at 77 K are narrower and much better resolved [92] than in the “conventional” PL emission spectra, Fig. 10 .

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1. Introduction 2. Experimental techniques of luminescence spectroscopy 3. Kinetic description of luminescence processes 4. Phonons and their participation in optical phenomena 5. Channels of radiative recombination in semiconductors 6. Nonradiative recombination 7. Luminescence of excitons 8. Highly excited semiconductors 9. Luminescence of disordered semiconductors 10.

Luminescence spectroscopy of semiconductors

The book fills a gap between general textbooks on optical properties of solids and specialized monographs on luminescence. It is unique in its coherent treatment of the phenomenon of luminescence from the very introductory definitions, from light emission in bulk crystalline and amorphous materials to the advanced chapters that deal with semiconductor nano objects, including spectroscopy of ...

Description: Luminescence spectroscopy of semiconductors

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Photoluminescence - Wikipedia

Luminescence of disordered (amorphous) semiconductors is due to a different microscopic mechanism compared to those being active in the luminescence of crystalline counterparts with long-range order. Electron and hole tail states, originating from dangling bonds, play the decisive role. Features typical for the amorphous semiconductor luminescence are discussed, namely: peculiar temperature ...

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Luminescence Spectroscopy Of Semiconductors

Luminescence of semiconductors is nowadays based on very firm background of solid state physics. The purpose of this book is to introduce the reader to the study of the physical principles underlying inorganic semiconductor luminescence phenomena. It guides the reader starting from the very introductory definitions over luminescence of bulk semiconductors and finishing at the up-to-date ...

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Luminescence Spectroscopy of Semiconductors Ivan Pelant and Jan Valenta. Covers an important branch of materials science and electronic industry; Fills a gap between textbooks on optical properties of solids and special monographs on luminescence; No other book offers a similar concept in the field of semiconductor luminescence