

## Luminescence Spectroscopy Of Semiconductors

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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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### **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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- Experimental Techniques of Luminescence Spectroscopy. Course Literature - Ivan Pelant and Jan Valenta "Luminescence Spectroscopy of Semiconductors", Oxford University Press, 2012, ISBN 978-0-19-958833-6. Examination. The course is seminar-oriented, where students take turns in presenting book chapters to the audience.

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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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### **Luminescence Spectroscopy of Semiconductors: Theory and ...**

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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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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  $\text{CaTiO}_3$  at 77 K are narrower and much better resolved [ 92 ] than in the "conventional" PL emission spectra, Fig. 10 .

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