

Ferd Williams

# Luminescence of Crystals, Molecules, and Solutions

Proceedings of the International Conference on Luminescence  
held in Leningrad, USSR, August 1972



Springer

# Luminescence Of Crystals Molecules And Solutions

**Robert Besancon**



## **Luminescence Of Crystals Molecules And Solutions:**

*Luminescence of Crystals, Molecules, and Solutions* Ferd Williams, 2012-12-06 These Proceedings report the scholarly work presented in Leningrad at the largest conference ever held on luminescence In addition to the large number of delegates the Conference was distinguished by strong and balanced representation on the program of papers from capitalist and socialist nations The Conference was sponsored by the International Union of Pure and Applied Physics and by the Academy of Science of the USSR As noted in the Opening Ceremony this Conference is in the series held approximately every three years since 1938 All branches of luminescence are included It was recognized during the early stages of organization of the Conference that there would be difficulties associated with the preparation of an English version of the Proceedings Until just before the Conference it was not evident whether translations of the Russian papers would be available and whether facilities would exist at the Conference for a working publication committee to edit the manuscripts It was not possible therefore to make contractual arrangements before the Conference for publication

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must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

**Volume 25: Optical Methods of Investigating Solid Bodies** D. V. Skobel'tsyn, 2013-04-17 The principal results of the work are as follows 1 A simplified technique was devised for obtaining Raman spectra of powders 2 The Raman and infrared absorption spectra of the following oxides were investigated AsP<sub>3</sub> SbP<sub>3</sub> As<sub>2</sub>O<sub>3</sub> SbP<sub>5</sub> TeO<sub>2</sub> GeO<sub>2</sub> two forms in the crystalline state and AsP<sub>3</sub> GeO<sub>2</sub> TeO<sub>2</sub> in the glassy state 2 5 2 3 The vibrational spectra of the crystalline and glassy forms of the oxides AsP<sub>3</sub> GeO<sub>2</sub> TeO<sub>2</sub> are similar in many main respects indicating a similarity of their structural units which determine the vibrational spectra of these substances 4 By a study of the vibrational spectrum it was shown that arsenious anhydride has a molecular structure and consists of As<sub>2</sub>O<sub>3</sub> molecules having symmetry of the point group T<sub>d</sub> The force constants and vibration frequencies of the As<sub>2</sub>O<sub>3</sub> molecule were calculated and the vibrational spectrum of arsenious anhydride was reliably interpreted with the aid of these results 5 A similar result was obtained for antimonous anhydride consisting of Sb<sub>2</sub>O<sub>3</sub> molecules with symmetry of the point group T<sub>d</sub> The force constants for this molecule were found and the vibrational spectrum was calculated

**Standardization in Spectrophotometry and Luminescence Measurements** K. D. Mielenz, R. A. Velapoldi, Radu Mavrodineanu, 1976 *Excitons at High Density* H. Haken, S. Nikitine, 2006-04-11 Thermoluminescence & Thermoluminescent Dosimetry Yigal S. Horowitz, 2020-04-28 First Published in 1984 this set offers a comprehensive insight into thermoluminescence Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for radiobiologists and physicists and other practitioners in their respective fields

**Spectroscopy of Crystals Containing Rare Earth Ions** A.A. Kaplyanskii, R.M. McFarlane, 2012-12-02 Spectroscopy of Crystals Containing Rare Earth Ions contains chapters on some key problems selected from a broad range of spectroscopic studies of RE activated solids including both crystalline and glassy materials Progress in crystal field theory is surveyed an area which is basic to our understanding of the energy levels The treatment of dynamical properties includes studies of coherence phenomena in isolated ions energy transfer between ions and cooperative phenomena associated with ion-ion and ion-lattice interactions In addition the role of electron spins and nuclear spins is studied by light scattering and double resonance techniques The presence of inhomogeneous broadening of spectral lines is observed and studied in many contexts leading to new insights into general problems of the disordered state Considerable attention is devoted to describing new experimental techniques whose development is of prime importance for progress in the spectroscopy of RE activated solids Many of these rely on the development and application of tunable lasers At the moment this is a very active field of spectroscopy with more exciting developments likely to occur in the future

**Summaries of Projects Completed** National Science Foundation (U.S.), The Physics of Semiconductors Marius

Grundmann,2021-03-06 The 4th edition of this highly successful textbook features copious material for a complete upper level undergraduate or graduate course guiding readers to the point where they can choose a specialized topic and begin supervised research The textbook provides an integrated approach beginning from the essential principles of solid state and semiconductor physics to their use in various classic and modern semiconductor devices for applications in electronics and photonics The text highlights many practical aspects of semiconductors alloys strain heterostructures nanostructures amorphous semiconductors and noise which are essential aspects of modern semiconductor research but often omitted in other textbooks This textbook also covers advanced topics such as Bragg mirrors resonators polarized and magnetic semiconductors nanowires quantum dots multi junction solar cells thin film transistors and transparent conductive oxides The 4th edition includes many updates and chapters on 2D materials and aspects of topology The text derives explicit formulas for many results to facilitate a better understanding of the topics Having evolved from a highly regarded two semester course on the topic The Physics of Semiconductors requires little or no prior knowledge of solid state physics More than 2100 references guide the reader to historic and current literature including original papers review articles and topical books providing a go to point of reference for experienced researchers as well *Nuclear Science Abstracts* ,1974-07

Uranium and Its Compounds ,1953 *Summaries of Projects Completed in Fiscal Year ...* , Novel Luminescent Crystalline Materials of Gold(I) Complexes with Stimuli-Responsive Properties Mingoo Jin,2020-04-18 This book highlights and investigates novel solid state luminescent properties of crystals with stimuli responsive behavior Several novel molecular designs for controlling crystal structures with photo physical properties are described with a special focus on external stimuli responsive properties The major goal of the material design concept was to capitalize on the chirality of crystals with stimuli responsive properties To allow crystals chirality to be controlled and modified by means of external stimulation the axial chirality of biaryl moiety was employed and interestingly produced several novel mechano and vapo responsive luminescent properties based on crystal to crystal or single crystal to single crystal phase transitions In addition the book details how the molecular rotation of luminophores in the solid phase can be used to achieve corresponding thermal responsive phosphorescence The reports presented here illustrate how the author has succeeded in controlling structural factors in a bulk environment by using molecular design with linking to photo physical properties The content will be of great interest to researchers in the field and to members of chemical and material science societies *Optics and Spectroscopy* ,1994

*Summaries of Projects Completed in Fiscal Year ...* National Science Foundation (U.S.),1977 **Organic Electronics** Stephen R. Forrest,2020 This textbook provides a basic understanding of the principles of the field of organic electronics through to their applications in organic devices Useful for the student and practitioner it is both a teaching text and a resource that is a jumping off point for learning working and innovating in this rapidly growing field Provided by publisher

The Encyclopedia of Physics Robert Besancon,2013-11-11

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