

Photoacoustic Effect Principles and Applications: Proceedings of the First International Conference on the Photoacoustic Effect in Germany

E. Lüscher



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VI The idea to hold such a meeting in Germany for the first time was due to Prof. H. Pelzl. Its realization was greatly supported by financial help of the Stiftung Volkswagenwerk and the Deutsche Physikalische Gesellschaft, which is gratefully acknowledged. The Editors VII Contents 1. Basic Principles Photoacoustic Effect in Condensed Matter - Historical Development E. LUscher 1 Opto-Acoustic Spectroscopy - A Tool for the Study of Optical Spectra of very Transparent Materials 21 C. K. N. Patel Thermodynamic r~ode 1 s of the Photoacousti c Effect P. Korpiun 40 Frequency Dependent Photoacous tic Spectroscopy of Condensed t*latter J. Pelzl 52 Photoacoustic Spectroscopies D. Fournier and A. C. Boccara so Comparison Between Photoacoustic and Other Spectroscopies 94 R. Til gner Generation of Acoustic Waves in Liquids by Pulsed Lasers IOS H. W. Sigrist Piezoelectric Detection in Photoacoustic Spectroscopy. Theory and Application 115 H. D. Breuer Photothermal Radiometry P. -E. Nordal and S. O. Kanstad 129 Contents VIII 2. Spectroscopic Applications Applications of Resonant Photoacoustic Spectroscopy 139 J. Roper, K. Frank, and P. Hess Photoacoustic Fourier Transform Spectroscopy for the Visible and the Near Infrared D. uebarre, A. C. Boccara and D. Fournier 147 Photoacoustic Spectra of Biliverdin Dimethyl Ester S. E. Braslavsky, R. Ellul, S. Culshaw, I. -M. Tegmo-larsson, and K. Schaffner 154 Quantitative Photoacoustic Spectroscopy of Phenolred Potassium Salt in Polyvinalalcohol W. Gortz and H. -H. Perkampus 163 In Situ Photoacoustic Spectroscopy of Copper Electrodes in Solution U. Sander, J. K. Dohrmann, and H. -H.

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