



Handbook of fluorescence spectra of Aromatic Molecules

Isadore Berlman

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Handbook of Fluorescence Spectra of Aromatic Molecules, Second Edition describes the fluorescence and absorption spectra of about 200 aromatic compounds, most of which fall into the following classes: p-oligophenylenes, indole derivatives, fluoranthene derivatives, naphthalene derivatives, biphenyl derivatives, and biological stains. Experiments with lasers and their relevance to fluorescence studies are included. This handbook is comprised of seven chapters and begins with a historical overview of research into the fluorescence characteristics of compounds, the methods and equipment used to measure fluorescence, and elementary considerations concerning luminescence. The format for the presentation of data pertaining to each compound covered in this text is described, together with the equipment for exciting, detecting, and recording the spectrum of the emitted radiation. The discussion then turns to the free electron model and presents general information on concepts such as chromophores, planar and nonplanar molecules, effects of planarity on fluorescence, solvent and concentration effects, and polarization. The following chapters focus on compounds such as benzene and polycyclic hydrocarbons as well as some uses of fluorescent compounds. This monograph will be of interest to organic chemists and physicists.

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