



Book Review

Infrared Absorbing Dyes. Ed. Masaru Matsuoka, Plenum Press, New York and London, 1990. xiv + 220 pp. Price: US\$59.50.

The advent of new laser technology and its resultant impetus on new dye chemistry will be a theme with which Journal readers are well frequented with. Chemists of all disciplines seeking a text which collates in a concise volume all aspects of infrared absorbing dyes can now fill the vacant space on their bookshelves, but will more than likely give it a more permanent home on their office and laboratory desks.

Professor Matsuoka has edited and contributed six of the 15 chapters to this comprehensive review of current awareness on IR dyes. The volume covers both the synthesis and applications of the dyes. Following a general chapter on the synthesis design (PPP MO), various dye classes (cyanine, quinone, phthalocyanine and naphthalocyanine, metal complex, photochromic types and miscellaneous chromophores) are individually considered. Applications of the dyes with respect to semiconductor lasers, optical recording systems, thermal writing displays, laser printing, laser filter systems, infrared photography and medical uses are then reviewed.

Each section is presented in a variety of subsections, and a plethora of tables and figures, greatly facilitating the presentation, and hence readability, of the text. References are cited up to 1989.

This is a welcome addition to the current volumes on dye chemistry and is thoroughly recommended.

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