

written review of dye lasers and their properties. In chapter 2, B. B. Snavely discusses continuous-wave dye lasers. The descriptions of tuning range, power, and experimental systems are still up to date in this rapidly developing area of dye laser technology.

An important application of dye lasers is the generation of tunable picosecond pulses. In chapter 3, C. V. Shank and E. P. Ippen describe the formation of ultrashort optical pulses and their measurement and applications.

The heart of the dye laser is the dye molecule itself. In chapter 4, K. H. Drexhage, the father of a number of laser dyes, discusses the structure and properties of laser dyes and outlines the future possibilities for new, more efficient, and longer-lived dyes with extended ultraviolet and infrared wavelengths.

The final chapter, by T. W. Hänsch, encompasses the wide applications of dye lasers. The topics considered include pollution detection, selective excitation spectroscopy, nonlinear spectroscopy, quantum-beat spectroscopy, and ultrahigh-resolution spectroscopy. Extension of the dye laser frequency range by nonlinear optical methods to the infrared and the ultraviolet is also discussed. Finally, a topic of recent intense interest, photochemistry and isotope separation, is considered.

I have found the book very useful as a reference and as an up-to-date summary of dye lasers. The only disappointment is the lack of discussion of high-energy flash-lamp dye lasers and their special engineering and design requirements. The book is well written and reasonably priced. It is an excellent introduction into the technology and applications of dye lasers.

ROBERT L. BYER

*Microwave Laboratory,
Stanford University,
Stanford, California*

Books Received

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Annual Meeting

New York City

26-31 January 1975

The program for the forthcoming AAAS Annual Meeting in New York City, 26-31 January 1975, can be found on pages 1016 to 1025 of the 13 December issue of *Science*.

A list of the tours which have been arranged for the Annual Meeting appeared in the 6 December issue of *Science* on page 918.

A schedule of films for the Science Film Festival which will take place at

the meeting, as well as a partial list of exhibitors at the new *INTERSCIENCE INTERNATIONAL*, can be found on page 1111 of the 20 December issue of *Science*.

We urge you to attend what will doubtlessly be a very valuable and rewarding scientific experience. Complete and return the registration forms which appear on pages 1202 and 1203 of this issue.

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