

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.

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Books Received

Arizona Climate. 1931-1972. William D. Sellers and Richard H. Hill, Eds. University of Arizona Press, Tucson, ed. 2, 1974. viii, 616 pp., illus. \$18.

Auditory Stimulus-Response Control. Robert T. Fulton, Ed. University Park Press, Baltimore, 1974. xii, 164 pp., illus. \$12.50.

Australian Marsupials and Other Native Mammals. Michael Morcombe. Scribner, New York, 1974. 100 pp., illus. \$7.95.

The Biology of Brains. Proceedings of a symposium, London, Sept. 1972. W. B. Broughton, Ed. Halsted (Wiley), New York, 1974. xx, 290 pp., illus. \$19.95. Symposia of the Institute of Biology, No. 21.

Chemical Carcinogenesis. Part B. Papers from a symposium, Baltimore, October 1972. Paul O. P. Ts'o and Joseph DiPaolo, Eds. Dekker, New York, 1974. xxii + pp. 443-794, illus. \$26.50. The Biochemistry of Disease.

China. The People's Republic of China and Richard Nixon. Claude A. Buss. Freeman, San Francisco, 1974 (trade distributor, Scribner, New York). xiv, 118 pp., illus. Cloth, \$5.95; paper, \$2.95. Reprint of the 1972 edition.

Explaining Crime. Gwynn Nettler. McGraw-Hill, New York, 1974. x, 300 pp., illus. Paper, \$4.95.

Field-Effect Transistors in Integrated Circuits. J. T. Wallmark and L. G. Carlstedt. Translated from the Swedish edition (Stockholm, 1971). Halsted (Wiley), New York, 1974. xii, 154 pp., illus. \$13.50.

A Guide to Addiction and Its Treatment. M. M. Glatt. Halsted (Wiley), New York, 1974. xviii, 346 pp. \$15.95. Drugs, Society and Man.

Health in 1980-1990. A Predictive Study Based on International Inquiry. Philip Selby. Karger, Basel, 1974. x, 88 pp. Paper, \$7. Perspectives in Medicine, 6.

Introduction to Arachnology. Theodore Savory. Crane, Russak, New York, 1974. xiv, 112 pp., illus. \$7.50.

Japan. The New Superstate. Nobutaka Ike. Freeman, San Francisco, 1974 (trade distributor, Scribner, New York). xvi, 122 pp., illus. Cloth, \$5.95; paper, \$2.95. Reprint of the 1973 edition.

Liquid Crystals and Plastic Crystals.

Vol. 2. Physico-Chemical Properties and Methods of Investigation. G. W. Gray and P. A. Winsor, Eds. Horwood, Chichester, England, and Halsted (Wiley), New York, 1974. vi, 314 pp., illus. \$32.50. Ellis Horwood Series in Physical Chemistry.

Manpower Issues and Voluntary Regulation in the Medical Specialty System. Herbert J. Lerner. Prodist (Watson Academic), New York, 1974. xii, 188 pp. Paper, \$5.95.

New Developments in Titrimetry. Joseph Jordan, Ed. Dekker, New York, 1974. x, 200 pp., illus. \$19.75. Treatise on Titrimetry, vol. 2.

Organic Polymeric Semiconductors. Ya. M. Paushkin, T. P. Vishnyakova, A. F. Lunin, and S. A. Nizova. Translated from the Russian edition (Moscow, 1971) by R. Kondor. D. Slutzkin, Transl. Ed. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. viii, 242 pp., illus. \$25.

The Physiological Basis of Starling's Law of the Heart. Proceedings of a symposium, London, Sept. 1973. Associated Scientific Publishers (Elsevier, Excerpta Medica, North-Holland), New York, 1974. x, 298 pp., illus. \$15.40. Ciba Foundation Symposium 24 (new series).

The Physiology of Insecta. Vol. 2. Morris Rockstein, Ed. Academic Press, New York, ed. 2, 1974. xx, 568 pp., illus. \$38.

Plastics Films. J. H. Briston and L. L. Katan. Halsted (Wiley), New York, 1974. x, 306 pp., illus. \$21.50. Plastics Institute Monographs.

Primates. Comparative Anatomy and Taxonomy. 7. Cynopithecinae. *Cercocebus, Macaca, Cynopithecus.* W. C. Osman Hill. Halsted (Wiley), New York, 1974. xxii, 934 pp., illus. + plates and maps. \$75. Edinburgh University Publications, Science and Mathematics No. 3G.

Principles and Practice of Electron Microscope Operation. Alan W. Agar, Ronald H. Alderson, and Dawn Chescoe. North-Holland, Amsterdam, and Elsevier, New York, 1974. xiv, 346 pp., illus. \$34.60. Practical Methods in Electron Microscopy, vol. 2.

The Use of Genetics in Insect Control. Papers from a symposium, Canberra, Australia, Aug. 1972. R. Pal and M. J. Whitten, Eds. North-Holland, Amsterdam, and Elsevier, New York, 1974. xiv, 242 pp., illus. \$32.

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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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