



# Dye Lasers

**Fritz Peter Schäfer**



## Dye Lasers:

**Dye Lasers** F.P. Schäfer, 2013-04-17 VI spectrum of potential applications is outlined by T W HANSCH who also touches briefly on the exciting field of laser spectroscopy a most important application to which a forthcoming volume is devoted The treatment being tutorial in nature is suitable both for graduate students and for scientists working in the dye laser field or applying a dye laser in another research discipline The book will also prove to be an indispensable and handy source of information for the specialist The literature is reviewed up to spring 1973 and the list of additional references which cites the titles of articles extends to summer 1973 This is proof of an amazingly short publication period for a 300 page book Heidelberg October 1973 HELMUT K V LOTSCH Contents 1 Principles of Dye Laser Operation By FRITZ P SCHAFFER with 53 Figures Historical 1 Organization of the Book 5 1 1 General Properties of Organic Compounds 6 1 2 Light Absorption by Organic Dyes 9 1 3 Deactivation Pathways for Excited Molecules 28 1 4 Laser Pumped Dye Lasers 32 1 4 1 Oscillation Condition 32 1 4 2 Practical Pumping Arrangements 37 1 4 3 Time Behavior and Spectra 44 1 5 Flashlamp Pumped Dye Lasers 54 1 5 1 Triplet Influence 54 1 5 2 Practical Pumping Arrangements 60 1 5 3 Time Behavior and Spectra 64 1 6 Wavelength Selective Resonators for Dye Lasers 66 1 7 Dye Laser Amplifiers 79 1 8 Outlook 83 2 Continuous Wave Dye Lasers By B B High-Power Dye Lasers Francisco J. Duarte, 2013-04-17 High power dye lasers provide a versatile tool in many scientific industrial and medical applications This book offers an up to date and practical guide to the physics and technology of these lasers for all those designing building and using such systems Individual topics include dispersive resonators signal amplification and dye laser pumping by excimer lasers copper vapor lasers and flashlamps *Dye Lasers* Fritz Peter Schäfer, 1990 Dye Lasers: 25 Years Michael Stuke, 2005-08-05 In Dye Lasers 25 years the pioneers and leading experts in the field of dye lasers present the current status and bright future perspectives of dye lasers and their applications in physics and chemistry Particular topics covered include new sources of ultrashort pulses novel aspects of resonator design and imaging for femtosecond lasers amplification schemes to terawatt intensity regimes optics and high resolution spectroscopy of atoms and molecules and electro optic and plasma physics applications of ultrashort and ultra intense laser pulses Since its invention in 1966 the dye laser has revolutionized many fields of science and technology Questions of fundamental interest in physics and chemistry can now be answered it is possible to test fundamental quantum physics in single atom experiments and regioselective photochemistry in complexes can be monitored directly using dye laser diagnostic methods In this book the latest results and most recent references are presented for new sources of ultrashort pulses from the visible to the VUV together with experimental details of ultrahigh resolution spectroscopy of atoms and molecules laser diagnostics of the dynamics of elementary chemical reactions and ultrahigh intensity sources for laser target interaction **Laser Fundamentals** William T. Silfvast, 2004-01-12 Laser Fundamentals published in 2004 provides an introduction to the physical and engineering principles of laser operation and design Dye Laser Principles Frank J.

Duarte, Lloyd William Hillman, 1990 A tutorial introduction to the field of dye lasers Dye Laser Principles also serves as an up to date overview for those using dye lasers as research and industrial tools A number of the issues discussed in this book are pertinent not only to dye lasers but also to lasers in general Most of the chapters in the book contain problem sets that expand on the material covered in the chapter Key Features Dye lasers are among the most versatile and successful laser sources currently available in use Offering both pulsed and continuous wave operation and tunable from the near ultraviolet to the near infrared these lasers are used in such diverse areas as industrial applications medical applications military applications large scale laser isotope separation fundamental physics spectroscopic techniques laser radar

**Nuclear Science Abstracts**, 1976 **Selected Papers on Dye Lasers** Frank J. Duarte, 1992 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

**A Program to Evaluate Dye Lasers as High Power, Pulsed, Visible Light Sources** Michael Bass, Thomas Deutsch, Marvin Weber, 1969 *Dye Lasers: 25 Years* Michael Stuke, 2014-03-12 In Dye Lasers 25 years the pioneers and leading experts in the field of dye lasers present the current status and bright future perspectives of dye lasers and their applications in physics and chemistry Particular topics covered include new sources of ultrashort pulses novel aspects of resonator design and imaging for femtosecond lasers amplification schemes to terawatt intensity regimes optics and high resolution spectroscopy of atoms and molecules and electro optic and plasma physics applications of ultrashort and ultra intense laser pulses Since its invention in 1966 the dye laser has revolutionized many fields of science and technology Questions of fundamental interest in physics and chemistry can now be answered it is possible to test fundamental quantum physics in single atom experiments and regioselective photochemistry in complexes can be monitored directly using dye laser diagnostic methods In this book the latest results and most recent references are presented for new sources of ultrashort pulses from the visible to the VUV together with experimental details of ultrahigh resolution spectroscopy of atoms and molecules laser diagnostics of the dynamics of elementary chemical reactions and ultrahigh intensity sources for laser target interaction

Application of Tunable Pulsed Dye Lasers in Spectroscopy and Thermophysical Measurement James Allen Bennett, 1980 **Dye Laser Performance Enhancement by Chemical Quenching of the Triplet State** John B. Marling, 1971 **Solid State Lasers**, 1998 *Lasers & Applications*, 1986 **Dye Laser and Chemical Laser Studies of Chemical Reaction Dynamics** Kammalathinna Virupaksha Reddy, 1977 *Laser Focus, Lasers, Optics, Fiberoptics Buyers' Guide*, 1984 **A Theory of CW Dye Laser Characteristics** Ida May-Yue Chan, 1979 Proceedings of the International Conference on Lasers, 1989 **Energy Research Abstracts**, 1995 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives

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Technology Felix Schuda, 1986

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