



Dye Lasers: 25 Years

By Michael Stuke

Springer-Verlag GmbH Apr 2014, 2014. Taschenbuch. Condition: Neu. Neuware - 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. 249 pp. Englisch.



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