



Laser Chemistry: Spectroscopy, Dynamics and Applications

By Telle, Helmut H.; Ureña, Angel González; Donovan, Robert J.

Wiley, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. About the authors. Chapter 1 Introduction. 1.1 Basic concepts in laser chemistry.1.2 Organization of the book.Part 1 Principles of lasers and laser systems. Chapter 2 Atoms and molecules, and their interaction with light waves.2.1 Quantum states, energy levels and wave functions. 2.2 Dipole transitions and transition probabilities.2.3 Einstein coefficients and excitedstate lifetimes.2.4 Spectroscopic line shapes.2.5 The polarization of light waves.2.6 Basic concepts of coherence.2.7 Coherent superposition of quantum states and the concept of wave packets. Chapter 3 The basics of lasers. 3.1 Fundamentals of laser action.3.2 Laser resonators.3.3 Frequency and spatial properties of laser radiation.3.4 Gain in continuous-wave and pulsed lasers.3.5Q-switching and the generation of nanosecond pulses.3.6 Mode locking and the generation of picosecond and femtosecond pulses. Chapter 4 Laser systems. 4.1 Fixedwavelength gas lasers: helium-neon, rare-gas ion and excimer lasers.4.2 Fixed-wavelength solid-state lasers: the Nd:YAG laser.4.3 Tuneable dye laser systems.4.4 Tuneable Ti:sapphire laser systems.4.5 Semiconductor diode lasers.4.6 Quantum cascade lasers.4.7 Non-linear crystals and frequency-mixing processes. 4.8 Three-wave mixing processes: doubling, sum and difference frequency generation.4.9 Optical parametric oscillation.Part 2 Spectroscopic techniques in laser chemistry. Chapter 5 General concepts of laser spectroscopy. 5.1 Spectroscopy based on photon detection.5.2 Spectroscopy

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