



# Laser Concepts and Applications

By S.A. Ahmad

New Age International (P) Limited, 2005. Hardcover. Book Condition: New. First edition. CONTENTS: Nuclear Physics Via Atomic Physics Using Lasers o Laser Techniques for Material Evaluation o Mixed Evolution of Light beams in Direction and Polarization o Spin-1/2 Interferometry with Light Beams o Copper Vapour Lasers -A Review o Self Filtering Unstable resonators o Chaos in Lasers o Carbon dioxide Laser Lasers o Carbon- Monoxide Laser o Wide Aperture X-Ray Image Converter Tubes o Development of Subnanosecond Framing Cameras in Loftan o Magentic Field Induced Nonlinear Optics o Competing Paramagnetic and Resonant Processes in Nonlinear Optics o Introduction to qptical Fibre Communication o Optical Fibre Lasers and Amplifiers oLaser Applications in Material Processing o Application of Laser Optical Tweezers in Immunology and Molecular Genetics o UV Resonance Raman and Tine Resolved Fluorescence Spectroscopy of Nucleic Acids and Nucleic Acid-Dye Conjugates o Soft X-Ray Lasers o Optically Pumped Mid-Infrared and Far-Infrared Molecular Gas Lasers o Infrared Diode Laser Spectroscopy of Transient Molecules o Development of Infrared Diode Laser Kinetic Spectroscopy and Its Applications to Chemical Reactions o Introduction to Quantur o Optics o Single Atom Spectroscopy and Quantum Jumps o Laser Isotope Separation: The Physics of the Process o Harmonic Generation...



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