

1. Record Nr.	UNINA9910257423603321
Titolo	Laser Physics [[electronic resource]] : Proceedings of the Third New Zealand Symposium on Laser Physics, held at the University of Waikato, Hamilton, New Zealand, January 17–23, 1983 // edited by J. D. Harvey, D. F. Walls
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1983
ISBN	3-540-39891-0
Edizione	[1st ed. 1983.]
Descrizione fisica	1 online resource (V, 267 p. 30 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 182
Disciplina	621.36
Soggetti	Lasers Photonics Quantum optics Optics, Lasers, Photonics, Optical Devices Quantum Optics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Optical bistability in semiconductors -- Optical bistability with two-level atoms -- Optical bistability and non absorption resonance in atomic sodium -- Polarization switching and optical bistability with resonantly driven $J=1/2$ to $J=1/2$ atoms in a ring cavity -- Chaos in nonlinear optical systems -- Spontaneous pulsations in lasers -- Experimental evidence for self-pulsing and chaos in CW-excited lasers -- Second harmonic generation in a resonant cavity -- On the generation of tunable ultrashort light pulses -- Raman spectroscopy with ultrashort coherent excitation. Narrowing of spectral lines beyond the dephasing linewidth -- An autocorrelator for the measurement of CW ultrashort optical pulses having frequency variations -- Multiphoton ionization of atoms -- Pump dynamical effects in superfluorescent quantum initiation and pulse evolution -- Coherent population trapping and the effect of laser phase fluctuations -- An introduction to the physics of laser fusion -- Distribution functions in quantum optics -- Quantum non demolition measurements.

