

1. Record Nr.	UNINA9910956397103321
Autore	Antsiferov V. V (Vitalii Vasilevich)
Titolo	Physics of solid-state lasers / / V.V. Antsiferov and G.I. Smirnov
Pubbl/distr/stampa	Cambridge, U.K., : Cambridge International Science Publishing, 2005
ISBN	1-280-23148-3 9786610231485 1-4237-4806-9 1-904602-48-7
Descrizione fisica	1 online resource (179 p.)
Altri autori (Persone)	SmirnovGennadii Ivanovich
Disciplina	621.36/61
Soggetti	Solid-state lasers Lasers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; Preface; Introduction; 1. Solid-state chromium lasers in free lasing regime; 2. Solid-state neodymium lasers in free lasing regime; 3. Generation of powerful single-frequency giant radiation pulses in solid-state lasers; 4. Lasing of stable supershort radiation pulses in solid-state lasers; 5. Increasing the lasing efficiency of solid-state lasers; 6. Principles of lasing of solid-state lasers; 7. Stochastic and transition processes in solid-state lasers; References; Index
Sommario/riassunto	The authors examine the processes of interaction of coherent radiation with solids, physical relationships governing lasing in dielectric crystals and glasses, activated by luminescent impurities. Solid-state lasers on crystals and glass are used most extensively in science and technology, because of their compact form, durability and a number of unique radiation parameters.