

Vol. 52

D. V. Skobel'tsyn *Editor*

Quantum Electronics in Lasers and Masers

Quantum Electronics In Lasers And Masers The Lebedev Physics Institute Series Vol 52 Part

D. V. Skobel tsyn



Quantum Electronics In Lasers And Masers The Lebedev Physics Institute Series Vol 52 Part :

Quantum Electronics in Lasers and Masers D. V. Skobel tsyn,2013-12-11 **Quantum Electronics in Lasers and Masers** ,1968 Physical Processes in Lasers D. V. Skobel tsyn,2012-12-06 The present collection of articles sets forth the results of experimental research on physical processes in various types of optical quantum devices lasers Data are presented on the regulation of the temporal and spectral characteristics of solid state lasers using a bleachable filter A mode self locking state is realized in which ultraflhort light pulses are emitted The stimulated emission in a pinch discharge due to transitions of singly and doubly ion ized argon atoms in the visible and ultraviolet parts of the spectrum is investigated Pulsed lasing associated with electron transitions in diatomic molecules at the leading edge of a power ful current pulse in a gas is subjected to systematic analysis The book is aimed at a broad spectrum of scientists and engineers specializing in quan tum radiophysics CONTENTS MODE DISCRIMINATION AND THE SELF LOCKING EFFECT IN SOLID STATE LASERS USING A BLEACHABLE FILTER A S Markin Introduction 1 Chapter 1 Q S wit chi n g 0 f Las e r s by Mea n s 0 f a Pas s i v e Shu t t e r 5 1 Operating Principle and Types of Passive Shutters 5 2 Q Switching of Neodymium Glass Lasers by Means of a Bleachable Liquid Filter 6 3 Dependence of the Width and Shape of the Giant Pulse on the Population Inversion Coefficient

Lasers and Their Applications / Lazery I Ikh Primenenie / Лазеры И Их Применение N. G. Basov,2012-12-06

High-Power Lasers and Laser Plasmas / Moshchnye Lazery I Lazernaya Plazma / Мощные Лазеры И Лазерная Плазма N. G. Basov,2012-12-06 Luminescence and Nonlinear Optics D. V. Skobel tsyn,2013-11-11

Physics of Atomic Collisions / Fizika Atomnykh Stolknovenii / ФИЗИКА АТОМНЫХ СТОЛКНОВЕНИЙ D. V. Skobel tsyn,2012-12-06 **Proceedings (Trudy) of the P.N. Lebedev Physics Institute** ,1973 **Theory of Plasmas** D. V. Skobel tsyn,2012-12-06 This volume contains two papers that review certain theoretical problems that have been studied in the Laboratory of Plasma Accelerators and Plasma Physics of the P N Lebedev Physics Institute of the Academy of Sciences of the USSR The review of R R Kikvidze and A A Rukhadze Theory of oscillations and stability of a semiconductor plasma with low carrier density in a strong electric field is devoted to a solid state plasma The main attention is devoted to the fact that in such a plasma electro magnetic waves are effectively generated if there is a negative current voltage characteristic in the carrier current this effect can compete in importance with the well known Gunn effect In their fundamental review paper Nonlinear theory of the interaction of waves in a plasma V V Pustovalov and V P SHin set forth the fundamentals of the theory of nonlinear interaction of waves in a hot rarefied plasma Besides a systematic exposition of the pro cedure for deriving the equations that describe the nonlinear interaction of waves in an iso tropic or an anisotropic magnetized plasma they study many concrete examples relating to the interaction of definite types of waves under different conditions

Luminescence Centers in Crystals N. G. Basov,2012-12-06 This collection of papers describes investigations of luminescence centers in II VI crystal phosphors ruby and molecular crystals These investigations were carried out using

spectroscopy in a wide range of wavelengths electron paramagnetic resonance and polarization methods The relationship between the thermal and optical depths of electron traps is considered specifically The articles in this collection should be of interest to all scientists investigating the luminescence of solids

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