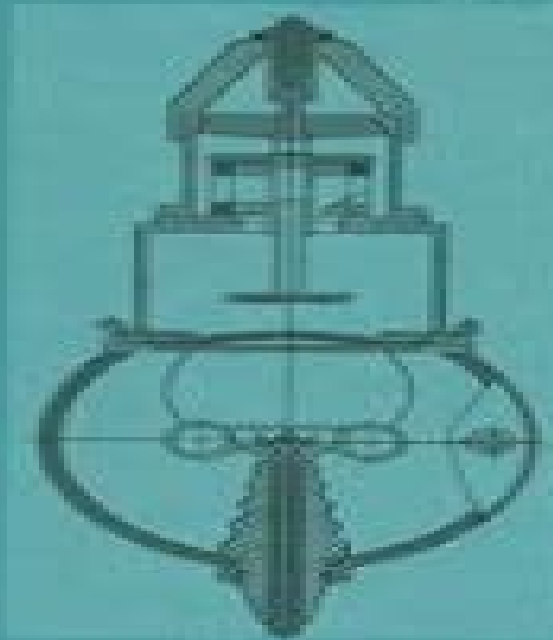


Pulsed Gas Lasers



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Pulsed Gas Lasers Gennadiĭ Andreevich Mesiĭaĭt'sĭĭ, Gennadiĭ Andreevich Mesiĭaĭt'sĭĭ, Vladimir Vasil'evich Osipov, Viktor Fedotov, Tarasenko, 1995 **Introduction to Gas Lasers: Population Inversion Mechanisms** Colin S. Willett, 2014-05-17 Introduction to Gas Lasers Population Inversion Mechanisms focuses on important processes in gas discharge lasers and basic atomic collision processes that operate in a gas laser Organized into six chapters this book first discusses the historical development and basic principles of gas lasers Subsequent chapters describe the selective excitation processes in gas discharges and the specific neutral ionized and molecular laser systems This book will be a valuable reference on the behavior of gas discharge lasers to anyone already in the field *Studies in Pulsed Gas Lasers* Roderick C. Tobin, 1980 *Gas Lasers* Masamori Endo, Robert F. Walter, 2018-10-03 Lasers with a gaseous active medium offer high flexibility wide tunability and advantages in cost beam quality and power scalability Gas lasers have tended to become overshadowed by the recent popularity and proliferation of semiconductor lasers As a result of this shift in focus details on modern developments in gas lasers are difficult to find In addition different types of gas lasers have unique properties that are not well described in other references Collecting expert contributions from authorities dealing with specific types of lasers Gas Lasers examines the fundamentals current research and applications of this important class of laser It is important to understand all types of lasers from solid state to gaseous before making a decision for any application This book fills in the gaps by discussing the definition and properties of gaseous media along with its fluid dynamics electric excitation circuits and optical resonators From this foundation the discussion launches into the basic physics characteristics applications and current research efforts for specific types of gas lasers CO lasers CO₂ lasers HF DF lasers excimer lasers iodine lasers and metal vapor lasers The final chapter discusses miscellaneous lasers not covered in the previous chapters Collecting hard to find material into a single convenient source Gas Lasers offers an encyclopedic survey that helps you approach new applications with a more complete inventory of laser options **Pulsed Gas Lasers**, 2000 **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 ultrafast light pulses are emitted The stimulated emission in a pinch discharge due to transitions of singly and doubly ionized 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 powerful current pulse in a gas is subjected to systematic analysis The book is aimed at a broad spectrum of scientists and engineers specializing in quantum 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 w i t c h i n g o f L a s e r s b y M e a n s o f a P a s s i v e S h u 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 **Gas Flow and Chemical Lasers** Salman Rosenwaks, 2012-12-06 The Sixth International Symposium on Gas Flow and Chemical Lasers GCL was held in Jerusalem Israel on September 8 12 1986 The charm and beauty of Jerusalem and the unique blending of ancient and modern made this Symposium an enjoyable experience for the 165 participants and the accompanying persons Yet it seems that the invited and contributed papers presented at the Symposium were equally attractive so that most of the participants attended most sessions resisting the temptations outside the session hall Indeed many speakers presented up to date results that were obtained or cleared just a few days before the Symposium This volume is a compilation of 19 invited and 61 contributed papers and of a panel discussion on the prospects for short wavelength chemical lasers held at the closing session of the Symposium This discussion is presented as recorded in order to retain the flavour of spontaneous presentation at the risk or advantage of presenting some venturesome ideas and the danger of misquoting In editing the book a deductive approach has been attempted The book starts with some fundamental issues namely fluid dynamics and optics and then deals with the design diagnostics propagation and applications of various gas laser systems covering the wavelength spectrum from XUV to infrared Then follow recent developments of general interest to the laser community and the book concludes with an eye to the future i.e. with a section on short wavelength chemical lasers **PULSED LASERS AND LASER APPLICATIONS (AMPL-2021)** , The book contains the materials on the fundamental and applied problems of pulsed lasers May be interesting for researchers and engineers working in the sphere of quantum electronics spectroscopy plasma physics medicine remote sensing and laser technologies Pulsed Metal Vapour Lasers C.E. Little, N.V. Sabotinov, 2012-12-06 A comprehensive up to date review of the physics and applications of a major class of laser the most important example of which is the copper vapour laser A collection of 50 papers written by the world's leaders in the field Papers cover the early history of pulsed metal vapour lasers the plasma kinetics and excitation mechanisms of self terminating and recombination metal vapour lasers beam quality issues for applications frequency harmonic generation for mid UV applications high precision processing of metals ceramics glasses and plastics using metal vapour lasers applications in medicine including oncology and dermatology applications in science such as spectroscopy and mass spectrometry A practical source of information on the physics engineering and applications of metal vapour lasers Audience scientists teachers and graduate researchers working in the fields of gas lasers laser optics gas discharges optoelectronics and laser applications in industry science and medicine *Lasers and Masers: a Continuing Bibliography* United States. National Aeronautics and Space Administration, 1965

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