

**METHODS OF**  
***Experimental Physics***

**VOLUME 18 — PART A**

**FLUID DYNAMICS**

# Methods Of Experimental Physics Volume 2 Ele

**Roman Wölfel**



## **Methods Of Experimental Physics Volume 2 Ele:**

Quantum Electronics ,1979-11-15 *Quantum Electronics* D. V. Skobel tsyn,2013-12-11 **Advances in Electronics and Electron Physics** ,1966-01-01 *Advances in Electronics and Electron Physics* Techniques for Nuclear and Particle Physics Experiments William R. Leo,2012-12-06 Not quite six years have passed since the appearance of the first edition of this book This is not a long period Yet the rapid pace of scientific and technological development today is such that any book on experimental technique must be wary of becoming obsolete in some way or another even in such a short span of time Thus when the publisher Springer Verlag informed me of the need for a new printing of this book I decided it was an opportune moment to update some of the chapters as well as to include some new material The result is this second edition The most notable changes have been in Chapters 2 and 3 In the latter which concerns radiation protection most of the sections have been rewritten to take into account the new recommendations from the International Commission on Radiation Protection the most important of which are the new dose limits for exposure to ionizing radiation In addition emphasis has now been put on the use of SI units in dosimetry i e the Gray and Sievert which have now become standard **Electroluminescence / Elektrolyuminestsentsiya / Электролюминесценция** D. V. Skobel tsyn,2013-03-09 *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 Switching of Lasers by Means of a Passive Shutter 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 **Luminescence and Nonlinear Optics** D. V. Skobel tsyn,2013-11-11 **Crystal Structure and Morphology** ,1980-07-21 *Crystal Structure and Morphology* **Programming and Computer Techniques in Experimental Physics** D. V. Skobel tsyn,2013-03-08 Nuclear Science Abstracts ,1975 Optical Properties of Metals and Intermolecular Interactions / Opticheskie Svoistva Metallov / Mezhmolekulyarnoe Vzaimodeistvie / Оптические Свойства Металлов / Межмолекулярное Взаимодействие D. V. Skobel tsyn,2012-12-06 The first part of this collection sets out the results of some experimental and theoretical investigations into the optical properties of nontransition metals The extensive future pros

pects of metal optics are indicated the use of metal optics enables a whole series of important electron properties of metals to be determined Results obtained by studying intermolecular forces the hydrogen bond and van der Waals forces using spectroscopic methods Raman effect and infrared absorption are presented in the second part A method of studying the true absorption of the drop phase of a water cloud is described Methods of increasing the dispersion of manufactured spectral instruments and constructing various infrared spectrometers are indicated The publication is intended for scientific workers graduates and students concerned with problems of metal optics the electron properties of metals and molecular spectroscopy v CONTENTS OPTICAL PROPERTIES OF NONTRANSITION METALS G P Motulevich Introduction 1 Chapter I Method of the Kinetic Equation in Metal Optics 5 1 Kinetic equation for the infrared part of the spectrum 5 2 Anomalous skin effect 9 3 Normal skin effect 11 4 Weakly anomalous skin effect 13      **Physics of Atomic Collisions / Fizika Atomnykh**

**Stolknovenii / ФИЗИКА АТОМНЫХ СТОЛКНОВЕНИЙ** D. V. Skobel'tsyn, 2012-12-06      **Nanosecond Pulse**

**Techniques** Wolfgang Meiling, Franz Stary, No detailed description available for Nanosecond Pulse Techniques

AM/FM/stereo Radio Receivers in Automobiles United States. Congress. House. Committee on Small Business.

Subcommittee on Antitrust, Consumers, and Employment, 1978      Experimental Electronics Richard J. Higgins, 1968

**Principles of Lasers** Orazio Svelto, 2012-12-06 This third edition motivated by the numerous and significant developments in the laser field since the publication of the second edition in 1982 is a substantially revised version of the previous edition The basic philosophy has however remained the same namely to provide a broad and unified description of laser behavior at the simplest level that is compatible with a correct physical understanding The basic organization of the book has also remained the same The book is therefore aimed at both classroom teaching and self study by students in electrical engineering physics and chemistry who have an interest in understanding the principles of laser operation The major additions to this edition are the following 1 New sections dealing with laser types in particular x ray lasers and new solid state lasers including alexandrite devices and a greatly extended description of semiconductor lasers 2 A more extended treatment of laser mode locking including new sections on cavity dumping and pulse compression 3 A more extended and greatly simplified description of the coherence and statistical properties of laser light as opposed to those of conventional light 4 A greatly extended discussion of the physics of gas discharges Other important additions include a discussion of some topics from conventional optics e g ray matrix methods Fabry Perot interferometers and multilayer dielectric mirrors Gaussian beam propagation e g the ABeD law and the theory of relaxation oscillations and active mode locking      *Optical Properties of Semiconductors* N. G. Basov, 2012-12-06      *A.L.A. Catalog*, 1904      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 procedure for deriving the equations that describe the nonlinear interaction of waves in an isotropic or an anisotropic magnetized plasma they study many concrete examples relating to the interaction of definite types of waves under different conditions

**Radio, Submillimeter, and X-Ray Telescopes** N. G. Basov, 2013-12-01 This volume contains the results of research and development connected with the creation of telescopes intended for the new regions of the spectrum mastered by astronomy the x ray submillimeter far infrared and radio regions The creation of x ray submillimeter and radio telescopes and the receiver apparatus connected with them is a complicated and in many respects unusual problem Therefore the experience accumulated at the Institute of Physics can prove useful to specialists working in this field This volume is intended for scientists engineers and builders occupied in research and development in the fields of x ray submillimeter and radio astronomy as well as for students of advanced courses in these specialties V CONTENTS A Reflecting X Ray Telescope for an Orbital Astrophysical Station 1 I L Beigman L A Vainshtein Yu P Voinov D A Goganov N I Komyak S L Mandel shtam I P Tindo N A Shatskii and A I Shurygin Mirror Systems for X Ray Telescopes 13 I L Beigman L A Vainshtein Yu P Voinov and V P Shevel ko Extra Atmospheric studies in the Submillimeter Range Using On Board Telescopes 35 A E Salomonovich and A s

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