

Russian Neurophysiology

Sensory Processes at the Neuronal and Behavioral Levels. G. V. GERSUNI, Ed. Translated by Jerry Rose. Academic Press, New York, 1971. xiv, 332 pp., illus. \$18.

Materials for translations continue to be chosen erratically, and the scientist without knowledge of Russian must be grateful for any translation that helps to fill in his spotty picture of Soviet work in his field. Here, for the sensory neurophysiologist, is a volume of 17 papers that grew from a symposium held at the 18th International Congress of Psychology in Moscow in August 1966. With the exception of Burel, Hicks, Jung, and Katsuki, the contributors are Soviet researchers, the majority from the Pavlov Institute of Physiology in Leningrad. About a quarter of the volume is devoted to matters of vision, the rest to audition. Most of the papers deal with aspects of single neuron firing patterns in mammals. Evoked potentials and psychophysics receive relatively scant attention.

Overall reviews of the visual and auditory systems are provided respectively by Jung and Gersuni. Gersuni's paper, entitled "Temporal organization of the auditory function," is a particularly good guide to the work of the Leningrad laboratory; this work is developed in considerably more detail in six further papers. Gersuni makes a case for logical division of the auditory function and of the properties of auditory neurons into mechanisms with long and with short time constants. Neurons involved in the short time constant mechanism are found throughout the auditory system and, according to Gersuni, may involve discrimination of spectral properties in short sounds or in transients. The long time constant mechanism may involve sensation of pitch and, in contrast to the short time constant functions, is not harmed by ablation of primary auditory cortex.

In another interesting paper, J. A. Altman examines effects of binaural click stimulation on neurons of the inferior colliculus. There is agreement with results of the Wisconsin group regarding the effects of time or intensity differences between stimuli to the two ears. Moreover, Altman delineates the sensitivity of some neurons to movements of the sound source in particular directions.

A. V. Popov offers a review of the peripheral auditory system of some insects. It is particularly useful for the

sensory neurophysiologist who works with mammals to be reminded of the extent to which relatively simple auditory systems can solve the same detection and discrimination problems.

The extensive bibliographies include translated titles in all references to the Russian literature, and should be a valuable aid to further literature search and to further translation projects. There are thorough subject and author indexes. The translator has made this a highly readable and useful volume.

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Plasma Physics and Chemistry

Reactions under Plasma Conditions. M. VENUGOPALAN, Ed. Wiley-Interscience, New York, 1971. 2 vols. Vol. 1, xiv, 600 pp., illus. Vol. 2, xiv, 608 pp., illus. \$29.95 each volume.

The stated purpose of this massive work is "to correlate in [a] single book . . . the bulk of information currently available on both the physics and chemistry of plasmas, together with the necessary theoretical and experimental background." The purpose of this review is to question the practicability of such a task, and even its desirability in the light of other available resources, and to call attention to some excellent specialized material in the volumes that is in danger of being swamped by the generality of the effort.

Because of its size, and a rather clear distinction of subject matter, the book is presented in two volumes, the quality, disposition, and importance of which are rather different. The first volume, presumably intended as background material for the plasma chemistry of the second, consists of a collection of surveys of various topics in plasma physics, prepared by several authors with widely differing styles. The resultant compendium is rather lumpy, ranging from sketchy, elementary, and too often superficial reviews of fundamental material on particle collisions, electrical discharge phenomenology, and plasma diagnostic methods to much more substantial discussions of the thermodynamics and transport properties of plasmas. The contributions on these last two topics, by H. W. Drawin, extend for some 230 pages and comprise a worthy monograph which may redeem the entire volume. For the remainder, my preference

would be to send the reader directly to the primary sources from which most of the material has been rather directly extracted, for example, the classics of Spitzer, Langmuir, Loeb, and von Engel and the more detailed technical handbooks of Griem, Heald and Wharton, and others. With such references on adjacent shelves of one's library, I can see little virtue in a collection of reviews and digests under one cover, unless it is prepared by a single author in such a way that a clear thread of logical relevance is carried through to the central material to follow. Such is not the case here.

The second volume, concerned largely with chemical and physical reactions in plasmas, seems to me a far more worthwhile enterprise, better conceived and more effectively implemented. Of the various technological applications of plasma phenomena, plasma chemistry is probably the most complex, the least developed, and very possibly the most rewarding, not even excluding fusion power generation. The slowness of its growth probably derives from some combination of that inherent complexity, the recent depression of government research in plasma areas, and a dearth of scientists with substantial backgrounds in both classical chemical kinetics and plasma physics. Few texts address the educational task, and most of the existing experience is widely scattered in obscure reports. Volume 2 is a good attempt to fill some of this void.

Following a superficial, but short, introduction, and some collision phenomenology somewhat repetitious of material in volume 1, there appear well-written sections on reaction kinetic methods with honest acknowledgments of their limits of applicability, useful surveys of existing studies of chemical reactions in various electrical discharges, and a highly informative review of the use of plasma jets for chemical synthesis. Chapters on plasma chemistry in flames, the exotic domains available in shock-wave-generated plasmas, and radiation-produced plasmas are equally exciting, particularly in terms of the unexplored possibilities they suggest. In short, the second volume, unlike its predecessor, qualifies as an effective attempt to correlate experience and thought in a promising technological infant.

ROBERT G. JAHN

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Reactions Under Plasma Conditions Volume Ii

SJ Ball



Reactions Under Plasma Conditions Volume Ii:

Nuclear Science Abstracts ,1974-07 **Nuclear Science Abstracts** ,1964 **Modern Developments In Catalysis, Volume 2** Graham J Hutchings,Matthew G Davidson,Richard C A Catlow,Nicholas J Turner,Christopher Hardacre,Charlotte Williams,Adrian Mulholland,Josie Goodall,Chris Mitchell,2023-02-06 The UK Catalysis Hub is a consortium of universities working together on fundamental and applied research to find out how catalysts work and to improve their effectiveness The contribution of catalysis to manufacturing contributes to almost 40% of global GDP making development and innovation within the field integral to industry Modern Developments in Catalysis Volume 2 provides a review and update of current research and practice on catalysis Topics range from the treatment of water using novel techniques for carbon neutrality cutting edge techniques using intense radiation including Operando Synchrotron Infrared Microspectroscopy to innovation in homogeneous catalysis heterogeneous catalysis and biocatalysis Edited by leaders of the UK Hub this book provides insight into one of the most important areas of modern chemistry it represents a unique learning opportunity for students and professionals studying and working towards speeding up improving and increasing the rate of catalytic reactions in science and industry *Principles of Vapor Deposition of Thin Films* Professor K.S. K.S Sree Harsha,2005-12-16 The goal of producing devices that are smaller faster more functional reproducible reliable and economical has given thin film processing a unique role in technology Principles of Vapor Deposition of Thin Films brings in to one place a diverse amount of scientific background that is considered essential to become knowledgeable in thin film deposition techniques Its ultimate goal as a reference is to provide the foundation upon which thin film science and technological innovation are possible Offers detailed derivation of important formulae Thoroughly covers the basic principles of materials science that are important to any thin film preparation Careful attention to terminologies concepts and definitions as well as abundance of illustrations offer clear support for the text **Analysis of Glow Discharges for Understanding the Process of Film Formation** Mundiayath Venugopalan,1984 **Plasma Chemistry** D. E. Jensen,J. R. Hollahan,H. Suhr,2013-10-22 Plasma Chemistry is a collection of papers dealing with chemi ionization kinetics elementary chemical processes kinetics in a non equilibrium orquasi equilibrium plasma and heterogeneous reactions in plasmas of moderate pressure Several papers discuss spectrometric plasma diagnostics organic syntheses under plasma conditions and the survival of plasma chemistry One paper reviews chemi ionization reactions including reactions involving an electronically excited collision partner in which Penning ionization comparisons can be made The paper also shows that observations made on noble gas metastables do not in apply to reactions of other species Another paper analyzes the mechanism of plasma chemical reactions occurring under electron impact and through electronic vibrational excited states In these states mutual influence of vibrational relaxation and dissociation becomes significant under low temperature plasma conditions One paper discusses plasma techniques that have been applied to carry out various types of isomerizations or eliminations with high yields The paper also shows the possibility

of generating reactive species atoms radicals carbenes by these methods The collection can prove useful for researchers technicians or scientists whose works involve organic chemistry analytical chemistry and other related fields of chemistry such as physical chemistry and inorganic chemistry Thin Films From Free Atoms and Particles Kenneth Klabunde,2012-12-02 Thin Films from Free Atoms and Particles is an eight chapter text that describes the primary reaction modes of atoms or coordination deficient particles This book presents first an introduction to free atoms and particles followed by a chapter describing the embryonic growth of films such as dimers trimers and other small telomers formed and detected The next chapters discuss the understanding of discharge processes for forming free atoms and particles The remaining chapters deal with the technology techniques and materials in thin films Physicists engineers materials scientists and chemists will find this book of great value Ion-Molecule Reactions J. L. Franklin,2012-12-06 Of Volume 2 8 Flowing Afterglow Studies 1 Introduction 2 Studies Bearing on Intermediate Complex Formation in Thermal Energy Collisions 2 1 Temperature Dependence of Slow Ion Molecule Reactions 2 2 Three Body Reaction Rate Constants 2 3 Rotational Excitation in Ion Neutral Reactions 2 4 Miscellaneous Considerations of Intermediate Complex Processes 3 Studies Bearing on Negative Ion Resonance Formation 4 Studies Bearing on Energetics 5 Conclusions References 9 Ion Cyclotron Resonance Spectrometry 1 Introduction 1 1 General Characteristics 2 Theoretica **Characterization of High Temperature Vapors and Gases** John W. Hastie,1979 Plasma Chemistry IV S. Veprék,M. Venugopalan,1982-12-01 **Progress in Reaction Kinetics** K. R. Jennings,R. B. Cundall,2016-06-06 Progress in Reaction Kinetics Volume 6 covers various aspects of kinetics It presents quantitative data on the reaction rates observed in hydrocarbon active nitrogen systems noble gases acids and bases and rare gas metastable atoms Comprised of six chapters the volume begins by discussing the reactions of nitrogen atoms with hydrocarbons It then illustrates the development of flash photolysis techniques and moves on to chemi ionization and chemical applications of rare gases The text concludes by describing salt and medium effects in ionic reactions in aqueous solutions Students and scientists who wish to increase their understanding of reactions occurring in various chemical reaction systems will find this volume invaluable *Plasma Chemistry - 2: Plasma Chemistry and Transport Phenomena in Thermal Plasmas* A. T. Bell,C. Bonet,2017-08-31 Plasma Chemistry 2 Plasma Chemistry and Transport Phenomena in Thermal Plasmas presents the proceeding of the Second International Symposium on Plasma Chemistry held in Rome Italy on September 18 23 1975 This book discusses the thermodynamic state of chemically reacting plasmas which are generally described by Pauli or Boltzmann kinetic equations Organized into eight chapters this compilation of papers begins with an overview of the influence of the plasma state by a superimposed laser radiation field This text then examines the mechanisms of chemical transformations in electric discharges Other chapters consider the successful exploitation of thermal plasmas in the field of high temperature chemistry This book discusses as well the status of plasma processes involving mass transfer and heat with reference to the processes of condensation vaporization and chemical reaction The

final chapter deals with plasma heating and spraying of various materials This book is a valuable resource for chemists metallurgists and scientists

Proceedings of the Seventh International Conference on Chemical Vapor Deposition, 1979 Thomas O. Sedgwick, Hans Lydtin, 1979

The Proceedings of the 19th Annual Conference of China Electrotechnical Society Qingxin Yang, Zhaohong Bie, Xu Yang, 2025-01-06 This book compiles exceptional papers presented at the 19th Annual Conference of the China Electrotechnical Society CES held in Xi an China from September 20 to 22 2024 It encompasses a wide range of topics including electrical technology power systems electromagnetic emission technology and electrical equipment The book highlights innovative solutions that integrate concepts from various disciplines making it a valuable resource for researchers engineers practitioners research students and interested readers

Polymeric Biomaterials, Revised and Expanded Severian Dumitriu, 2001-11-29 Offering nearly 7000 references 3900 more than the first edition *Polymeric Biomaterials Second Edition* is an up to the minute source for plastics and biomedical engineers polymer scientists biochemists molecular biologists macromolecular chemists pharmacists cardiovascular and plastic surgeons and graduate and medical students in these disciplines Completely revised and updated it includes coverage of genetic engineering synthesis of biodegradable polymers hydrogels and mucoadhesive polymers as well as polymers for dermacosmetic treatments burn and wound dressings orthopedic surgery artificial joints vascular prostheses and in blood contacting systems

Electrical Breakdown and Discharges in Gases Erich E. Kunhardt, 2012-11-29 This volume contains the lectures and seminars on Coronas Gas Discharges Diagnostics Plasma Chemistry and Applications presented at the Advanced Study Institute on Breakdown and Discharges in Gases The Institute was held in Les Arcs France during June 28 to July 10 1981 The first volume has been devoted to the areas of Basic Discharge Processes Kinetic Theory and Gas Breakdown This collection is both tutorial and representative of the state of the field We hope it will be useful both to beginners and experienced researchers We are grateful to a number of organizations for providing financial assistance The Scientific Affairs Division of NATO provided the major contribution for the Institute The Office of Naval Research the Naval Surface Weapons Center at Dahlgren the Air Force Office of Scientific Research and the Air Force Weapons Laboratory provided additional support The National Science Foundation financed the travel of one student We would like to acknowledge the many people who helped us organize and carry the Institute to its successful completion

Progress in Optics, 1978-01-01

Progress in Optics

Progress in Plasmas and Gas Electronics, Volume 1 R. Rompe, M. Steenbeck, 2022-02-07 No detailed description available for *Progress in Plasmas and Gas Electronics Volume 1*

Multidisciplinary Subjects For Research-IV, Volume-2 Dr. Dilip A. Ode, Mr. Jigeshkumar D. Chauhan, Sruthi S., 2021-01-29

Physics, Volume 2 David Halliday, Robert Resnick, Kenneth S. Krane, 2010-04-20 Written for the full year or three term Calculus based University Physics course for science and engineering majors the publication of the first edition of *Physics* in 1960 launched the modern era of *Physics* textbooks It was a new paradigm at the time and continues to be the dominant model for all texts *Physics* is

the most realistic option for schools looking to teach a more demanding course The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research End of chapter problem sets are thoroughly over hauled new problems are added outdated references are deleted and new short answer conceptual questions are added

Reviewing **Reactions Under Plasma Conditions Volume II**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Reactions Under Plasma Conditions Volume II**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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