
Radio-Frequency Capacitive Discharges

Yuri P. Raizer
Mikhail N. Shneider
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James K. Olthoff



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Physics of Radiofrequency Capacitive Discharge V. P. Savinov, 2018-05-23 This book describes the physical mechanism of high frequency radio frequency capacitive discharge RFCD of low and medium pressure and the properties of discharge plasma in detail The main properties and characteristics of RFCD the features of electric breakdown in a high frequency field are also investigated The properties of near electrode layers of a spatial discharge the nature of the electric field in them and the processes of charge transport to electrodes are explored The work is intended for scientists engaged in gas discharge physics and low temperature plasmas graduate students and students of physics physical chemistry and relevant specialties

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Chabert, Nicholas Braithwaite, 2011-02-24 Low temperature radio frequency plasmas are essential in various sectors of advanced technology from micro engineering to spacecraft propulsion systems and efficient sources of light The subject lies at the complex interfaces between physics chemistry and engineering Focusing mostly on physics this book will interest graduate students and researchers in applied physics and electrical engineering The book incorporates a cutting edge perspective on RF plasmas It also covers basic plasma physics including transport in bounded plasmas and electrical diagnostics Its pedagogic style engages readers helping them to develop physical arguments and mathematical analyses Worked examples apply the theories covered to realistic scenarios and over 100 in text questions let readers put their newly acquired knowledge to use and gain confidence in applying physics to real laboratory situations *Electron Kinetics and Applications of Glow Discharges* Uwe Kortshagen, Lev D. Tsendin, 2006-04-11 This book resulted from the NATO Advanced Research Workshop on Electron Kinetics and Applications of Glow Discharges held in St Petersburg Russia on May 19 23 1997 Glow discharges have found widespread applications in many technological processes from the manufacture of semiconductors to recent developments in na technology to the traditional fields of gas lasers and discharge lamps Consequently the interest in the physics of glow discharges has experienced yet another resurgence of interest While the non equilibrium character of glow discharges is widely accepted the opinion still prevails that the main features can be captured by fluid models and that kinetic treatments are only required for the understanding of subtle details The erroneousness of this belief is demonstrated by the failure of fluid models to describe many basic features of glow discharges such as for instance electrode phenomena striations and collisionless heating effects An adequate description of glow discharges thus has to be of kinetic nature Advances in Heat Transfer James P. Hartnett, 2007-10-09 Advances in Heat Transfer fills the information gap between regularly scheduled journals and university level textbooks by providing wide ranging and in depth review articles Put simply this book is essential reading for all mechanical chemical and industrial engineers working in the field of heat transfer in graduate schools or industry The articles which serve as a broad review for experts in the field will also be of great interest to non specialists who need to keep up to date with the results of the latest research Provides an overview of review articles on topics of current interest Bridges the gap between academic researchers and practitioners in industry A long running and prestigious series **Proceedings of the 3rd International Conference on Electronic Engineering and Renewable Energy Systems** Hajji Bekkay, Adel Mellit, Antonio Gagliano, Abdelhamid Rabhi, Mohammed Amine Koulali, 2023-04-11 This book includes papers presented at the 3rd International Conference on Electronic Engineering and Renewable Energy ICEERE 2022 which focus on the application of artificial intelligence techniques emerging technology and the Internet of things in electrical and renewable energy systems including hybrid systems micro grids networking smart health applications smart grid mechatronics and electric vehicles It particularly focuses on new renewable energy technologies for agricultural and rural areas to promote the development of the Euro Mediterranean

region Given its scope the book is of interest to graduate students researchers and practicing engineers working in the fields of electronic engineering and renewable energy

Plasma Science and Technology Haikel Jelassi,Djamel Benredjem,2019-02-27 Usually called the fourth state of matter plasmas make up more than 99% of known material In usual terminology this term generally refers to partially or totally ionized gas and covers a large number of topics with very different characteristics and behaviors Over the last few decades the physics and engineering of plasmas was experiencing a renewed interest essentially born of a series of important applications such as thin layer deposition surface treatment isotopic separation integrated circuit etchings medicine etc Plasma Science Gaseous Electronics Conference Radio-Frequency Reference Cell James K. Olthoff,1996 The GEC RF Reference Cell is a parallel plate capacity coupled rf plasma reactor that in principle is suitable for studies of basic discharge phenomena investigation of industrial type plasmas and theoretical modeling This report contains 12 articles that review nearly all of the experiments and theoretical modeling efforts that have been performed over the last 5 years using GEC cells Together they serve as a users guide to the operation and performance of the GEC cell Plasma Assisted Combustion and Chemical Processing Yiguang Ju,Andrey Starikovskiy,2025-03-18 Plasma Assisted Combustion and Chemical Processing provides an introduction to the opportunities of plasma assisted combustion and chemical processing for green energy conversion using renewable electricity Covering the fundamentals of combustion and plasma physics and chemistry it details the mechanisms and technologies of plasma enhanced combustion chemical process materials manufacturing and recycling and pollutant control Addressing future challenges and opportunities of plasma assisted combustion and electrified green manufacturing this book covers the state of art methods of modeling and diagnostic tools to optimize the process design This book offers graduate students and researchers a comprehensive review of the fundamentals and research frontier in this emergent field

Theoretical and Computational Physics of Gas Discharge Phenomena Sergey T. Surzhikov,2020-05-05 This work concerns the computational modelling of the dynamics of partially ionized gases with emphasis on electrodischarge processes Understanding gas discharges is fundamental for many processes in mechanics manufacturing materials science and aerospace engineering This second edition has been expanded to include the latest developments in the field especially regarding the drift diffusion model and rarefied hypersonic flow Industrial Plasma Engineering J Reece Roth,2017-11-01 Written by a leading expert in the field the paperback edition of Industrial Plasma Engineering Volume 2 Applications to Nonthermal Plasma Processing provides a background in the principles and applications of low temperature partially ionized Lorentzian plasmas that are used industrially The book also presents a description of plasma related processes and devices that are of commercial interest The text is suitable for students or in service users with a physics and calculus background at the sophomore level These two volumes are intended to be used as textbooks at the senior or first year graduate level by students from all engineering and physical science disciplines and as a reference source by in service engineers

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Bekkay Hajji, Adel Mellit, Giuseppe Marco Tina, Abdelhamid Rabhi, Jerome Launay, Salah Eddine Naimi, 2020-08-14 This book includes papers presented at the Second International Conference on Electronic Engineering and Renewable Energy ICEERE 2020 which focus on the application of artificial intelligence techniques emerging technology and the Internet of things in electrical and renewable energy systems including hybrid systems micro grids networking smart health applications smart grid mechatronics and electric vehicles It particularly focuses on new renewable energy technologies for agricultural and rural areas to promote the development of the Euro Mediterranean region Given its scope the book is of interest to graduate students researchers and practicing engineers working in the fields of electronic engineering and renewable energy

Practical Spectroscopy of High-Frequency Discharges Sergi Kazantsev, Vyacheslav I. Khutorshchikov, Günter H.

Guthöhrlein, Laurentius Windholz, 2013-03-09 A uniquely practical book this monograph is the first to describe basic and applied spectroscopic techniques for the study of physical processes in high frequency electrodeless discharge lamps Special attention is given to the construction and optimization of these lamps a popular source of line spectra and an important tool in ultraprecise optical engineering Highlights include discussions of high precision measurements of gas pressures spectral source lifespan and more *Ion and Neutral Energy Distributions in Multifrequency Capacitive Discharges* Alan Chung Fai Wu, 2007 *Mechanism of Electron Heating in Radio Frequency (RF) Capacitive Discharges* Alan Chung Fai Wu, 2005

Gas Lasers - Recent Developments and Future Prospects W.J. Witteman, V.N. Ochkin, 1996-03-31 The gas laser s high power in all parts of the spectrum and and potential high quality with low cost make its industrial application intriguing The 30 July 1995 proceedings papers discuss these aspects of gas lasers along with the fundamental and technological problems of different types of lasers connected with beam properties excitation technology new pumping schemes pulsed power construction materials and new description codes Lacks an index Annotation copyright by Book News Inc Portland OR

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