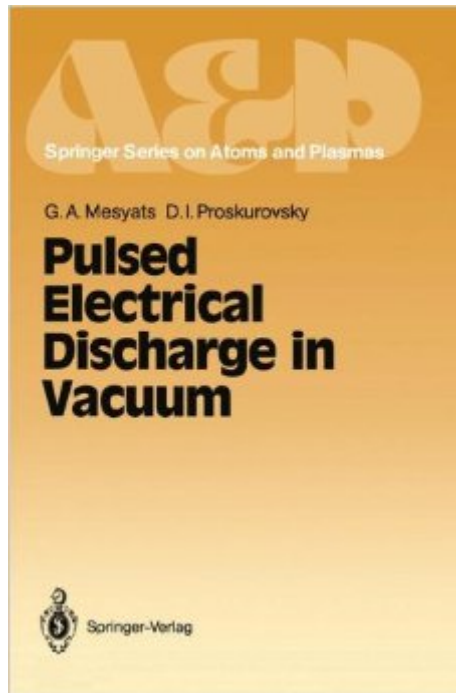


The book was found

# Pulsed Electrical Discharge In Vacuum (Springer Series On Atomic, Optical, And Plasma Physics)



## Synopsis

This is an up-to-date review of studies in the physics of pulsed electrical discharges in a vacuum. It gives the reader detailed information on the processes occurring at electrodes and in vacuum gaps and on the mechanisms of discharge initiation and development. Modern techniques and equipment are described in detail. Their high temporal and spatial resolution may be used to solve a number of problems concerning the short-term and microscopic aspects of discharges. A summary is given of a great deal of experimental data on the kinetics of vacuum breakdown. The authors used these results to identify a series of steps in the vacuum breakdown phenomenon. They were the first to discover and describe the explosive electron emission phenomenon and to show its fundamental role in the spark and the arc stages of a discharge. The information in this book may encourage the reader to design new experiments. The results presented may be applied to solve specific research or engineering problems.

## Book Information

Series: Springer Series on Atomic, Optical, and Plasma Physics (Book 5)

Paperback: 293 pages

Publisher: Springer; Softcover reprint of the original 1st ed. 1989 edition (January 1, 1989)

Language: English

ISBN-10: 364283700X

ISBN-13: 978-3642837005

Product Dimensions: 6.1 x 0.7 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,098,646 in Books (See Top 100 in Books) #326 in Books > Science &

Math > Physics > Nuclear Physics > Atomic & Nuclear Physics #752 in Books > Science & Math

> Physics > Solid-State Physics #1467 in Books > Science & Math > Physics >

Electromagnetism

[Download to continue reading...](#)

Pulsed Electrical Discharge in Vacuum (Springer Series on Atomic, Optical, and Plasma Physics)

Fundamental Aspects of Plasma Chemical Physics: Transport (Springer Series on Atomic, Optical,

and Plasma Physics) Reparando TV Plasma y LCD/ Repairing Plasma TV and LCD: Fundamentos,

Ajustes y Soluciones (Spanish Edition) Atomic Spectra and Radiative Transitions (Springer Series in

Chemical Physics, Vol. 1) The Lightning Discharge (International Geophysics Series) Introduction to

Plasma Physics and Controlled Fusion Introduction to Plasma Physics PEMF - The Fifth Element of Health: Learn Why Pulsed Electromagnetic Field (PEMF) Therapy Supercharges Your Health Like Nothing Else! Photonics Rules of Thumb: Optics, Electro-Optics, Fiber Optics, and Lasers (Optical and Electro-Optical Engineering Series) Optical Processes in Semiconductors (Prentice-Hall electrical engineering series. Solid state physical electronics series) Optical Character Recognition: An Illustrated Guide to the Frontier (The Springer International Series in Engineering and Computer Science) Electron Holography (Springer Series in Optical Sciences) Handbook of Optical Fibers and Cables, Second Edition (Optical Science and Engineering) Introduction to Optical Communication, Lightwave Technology, Fiber Transmission, and Optical Networks Troubleshooting Optical Fiber Networks: Understanding and Using Optical Time-Domain Reflectometers Fatasticas ilusiones opticas / Fantastic optical illusions: Alrededor De 150 Imagenes Con Trucos Visuales Y Puzles Opticos / About 150 Images With Visual Tricks and Optical Puzzles (Spanish Edition) Waste Electrical and Electronic Equipment (WEEE) Handbook (Woodhead Publishing Series in Electronic and Optical Materials) Photonics: Optical Electronics in Modern Communications (The Oxford Series in Electrical and Computer Engineering) Electron Spectrometry of Atoms using Synchrotron Radiation (Cambridge Monographs on Atomic, Molecular and Chemical Physics) The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series)

[Dmca](#)