**DESCRIPTION**

This comprehensive text is suitable for researchers and graduate students of a ‘hot’ new topic in medical physics.

Written by the world’s leading experts, this book aims to present recent developments in plasma medicine, both technological and scientific, reviewed in a fashion accessible to the highly interdisciplinary audience consisting of doctors, physicists, biologists, chemists and other scientists, university students and professors, engineers and medical practitioners.

The book focuses on major topics and covers the physics required to develop novel plasma discharges relevant for medical applications, the medicine to apply the technology not only in-vitro but also in-vivo testing and the biology to understand complicated bio-chemical processes involved in plasma interaction with living tissues.

**ABOUT THE AUTHOR**

**Alexander Fridman**, Ph.D., Dr.Sci., is a Nyheim Chair Professor and director of the A.J. Drexel Plasma Institute, working on new plasma approaches to material treatment, fuel conversion, environmental control and bio-medical applications. He is one the pioneers of Plasma Medicine, President of the International Society on plasma Medicine. Dr. Fridman is author of six books and over 450 publications in scientific journals. He has received numerous awards, including Stanley Kaplan Distinguished Professorship of University of Illinois and George Soros Distinguished Professorship in Physics, the DuPont
research award, Chernobyl award, University of Illinois and Drexel University Outstanding Research awards, Kurchatov Gold Medal for Achievements in Science and Technology.

**Gary Friedman**, PhD, is a Professor of Electrical Engineering as well as Professor of Surgery in Drexel University. He is Associate Director of the Drexel Plasma Institute, leading the direction of plasma medicine. He is a world renowned specialist in novel engineering methods in medicine, especially in plasma medicine. He is an author of pioneering works related to bio-physics and bio-chemistry of plasma interactions with living tissue. He made significant contribution in plasma applications for wound treatment. Dr. Gary Friedman also has extensive experience in modeling and design of magnetic devices.

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