



## Plasma Medicine

By Alexander Fridman, Gary Friedman

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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.

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### Editorial Review

#### From the Back Cover

The topic of plasma medicine embraces **physics**, required to develop novel plasma discharges relevant for medical applications, **medicine**, to apply the technology not only in-vitro but also in-vivo testing, and last but not least **biology** to understand complicated bio-chemical processes involved in plasma interaction with living tissues. *Plasma Medicine* has been written for the numerous scientists and medical practitioners, students, professors and researchers from industrial companies, who are involved today in the research and development of this key topic. This comprehensive volume consolidates plasma medicine as a new field of science and technology.

The first five chapters focus on the chemical and physical aspects of plasma medicine, presenting:

- An introduction to fundamental and applied aspects of plasma medicine
- The fundamentals of plasma physics and plasma chemistry relevant to biological and medical applications;
- Relevant concepts in biology and medicine for physical scientists
- A description of the major plasma discharges and their applicability for plasma medicine;
- The mechanisms of plasma interactions with cells.

The next six chapters focus on applied plasma medicine:

- Plasma sterilization of “inanimate” surfaces;
- Plasma decontamination of water and air;
- Plasma treatment of blood;
- Plasma assisted healing and treatment of diseases;
- Plasma pharmacology;
- Fundamentals of plasma-assisted tissue engineering and plasma processing of polymers.

*Plasma Medicine* is aimed at researchers and advanced students in the medical, healthcare and scientific communities, as well as plasma scientists and engineers interested in entering this field. In addition, with the recent introduction of the subject of plasma medicine to the academic curriculum of many universities, the authors hope that the present book will be helpful to students (as well as professors) involved in the plasma-medical education.

#### 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 of 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.

## Users Review

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#### **Robert Bell:**

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What is your hobby? Have you heard which question when you got students? We believe that that query was given by teacher to the students. Many kinds of hobby, Every person has different hobby. And you also know that little person such as reading or as looking at become their hobby. You should know that reading is very important as well as book as to be the thing. Book is important thing to include you knowledge, except your teacher or lecturer. You get good news or update about something by book. Numerous books that can you decide to try be your object. One of them is Plasma Medicine.

#### **Mark Montague:**

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choose easy book to make you enjoy to read it and mingle the impression about book and reading especially. It is to be very first opinion for you to like to wide open a book and go through it. Beside that the book Plasma Medicine can to be your friend when you're truly feel alone and confuse in doing what must you're doing of their time.

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