



Plasma Physics and Engineering, Second Edition

Alexander Fridman, Lawrence A. Kennedy

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Plasma plays an important role in a wide variety of industrial processes, including material processing, environmental control, electronic chip manufacturing, light sources, and green energy, not to mention fuel conversion and hydrogen production, biomedicine, flow control, catalysis, and space propulsion.

Following the general outline of the bestselling first edition, **Plasma Physics and Engineering, Second Edition** provides a clear fundamental introduction to all aspects of the modern field. Reflecting recent scientific and technological developments, this resource will be useful to engineers, scientists, and students working with the physics, engineering, chemistry, and combustion of plasma, as well as chemical physics, lasers, electronics, new methods of material treatment, fuel conversion, and environmental control.

The book includes many enhancements and some totally new coverage of fundamental subjects such as:

- Interaction and dynamics of streamers
- Plasma-flow interaction
- High-speed plasma aerodynamics
- Plasma-surface interaction
- Mechanisms and kinetics of plasma–medical processes

Along with these new topics and deeper coverage of material from the first book, this edition presents two new chapters on microdischarges and discharges in liquids. It also contains an extensive database on plasma kinetics and thermodynamics, many helpful numerical formulas for practical calculations, and an array of problems and concept questions. PowerPoint™ slides and a solutions manual are available for qualifying instructors who adopt this book for their courses.

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