

Plasma Physics and Engineering presents basic and applied knowledge on modern plasma physics, plasma chemistry, and plasma engineering for senior undergraduate and graduate students as well as for scientists and engineers working in academia; research labs; and industry with plasmas, laser, and combustion systems. This is a unique book providing a clear fundamental introduction to all aspects of modern plasma science, describing all electric discharges applied today from vacuum to atmospheric pressure and higher, from thermal plasma sources to essentially cold non-equilibrium discharges. A solutions manual is available for adopting professors, which is helpful in relevant university courses.

- Provides a lucid introduction to virtually all aspects of modern plasma science and technology
- Contains an extensive database on plasma kinetics and thermodynamics
- Includes many helpful numerical formulas for practical calculations, as well as numerous problems and concepts
- This revised edition includes new material on atmospheric pressure discharges, micro discharges, and different types of discharges in liquids

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ISBN: 978-1-4987-7221-1



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