



Introduction to Plasma Technology: Science, Engineering, and Applications

By John Ernest Harry

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Written by a university lecturer with more than forty years experience in plasma technology, this book adopts a didactic approach in its coverage of the theory, engineering and applications of technological plasmas.

The theory is developed in a unified way to enable brevity and clarity, providing readers with the necessary background to assess the factors that affect the behavior of plasmas under different operating conditions. The major part of the book is devoted to the applications of plasma technology and their accompanying engineering aspects, classified by the various pressure and density regimes at which plasmas can be produced. Two chapters on plasma power supplies round off the book.

With its broad range of topics, from low to high pressure plasmas, from characterization to modeling, and from materials to components, this is suitable for advanced undergraduates, postgraduates and professionals in the field.

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Editorial Review

About the Author

John Ernest Harry has been involved with plasma research for more than forty years. He has 120 scientific papers, three books and more than ten patents to his name. After a period in industry he joined Loughborough University, UK, as a Senior Lecturer for electrical engineering in 1972 and became Reader in Electric Discharges in 1985. In addition to his lectureships John Ernest Harry is Chief Executive of Plasma Systems Ltd, Kent, UK, and works with Loughborough University as a project consultant.

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