



High Power Microwaves, Second Edition (Series in Plasma Physics)

By James Benford, John A. Swegle, Edl Schamiloglu

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The first edition of High Power Microwaves was considered to be the defining book for this field. Not merely updated but completely revised and rewritten, the second edition continues this tradition. Written from a systems perspective, the book provides a unified, coherent presentation of the fundamentals in this rapidly changing field. The presentation is broad and introductory, with the flavor of a survey, yet not elementary. The authors cover all the major types of microwave sources, their distinguishing features, and primary research issues, and the fundamental limits on performance.

What's new in the second edition:

- Coverage of HPM systems with a detailed example called SuperSystem
- A survey of a class of high power radiators, with very different technologies and applications, that has fully emerged since the first edition
- New HPM formulary contains a handy compilation of frequently used rules of thumb and formulas

The book outlines historical trends that have led to the development of HPM and compares the capabilities of HPM to those of conventional microwaves. It divides the field into two sectors: applications driven and technology driven, and address both perspectives. Starting from the applications of HPM, the book reviews microwave fundamentals, enabling technologies, and the equipment and facilities surrounding the sources in which microwaves are generated. The authors conclude with coverage of ultrawideband technologies and the major source groups.

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Editorial Review

About the Author

J Benford, Microwave Systems Inc., USA, LAFAYETTE CA, U.S.A J Swegle, J-Two, California, USA, California, U.S.A E Schamiloglu, University of New Mexico, USA, New Mexico, U.S.A

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Melvin Wilhelm:

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