



# High Power Microwaves, Third Edition (Series in Plasma Physics)

*James Benford, John A. Swegle, Edl Schamiloglu*

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**High Power Microwaves, Third Edition (Series in Plasma Physics)** James Benford, John A. Swegle, Edl Schamiloglu

Following in the footsteps of its popular predecessors, **High Power Microwaves, Third Edition** continues to provide a wide-angle, integrated view of the field of high power microwaves (HPMs). This third edition includes significant updates in every chapter as well as a new chapter on beamless systems that covers nonlinear transmission lines.

Written by an experimentalist, a theorist, and an applied theorist, respectively, the book offers complementary perspectives on different source types. The authors address:

- How HPM relates historically and technically to the conventional microwave field
- The possible applications for HPM and the key criteria that HPM devices have to meet in order to be applied
- How high power sources work, including their performance capabilities and limitations
- The broad fundamental issues to be addressed in the future for a wide variety of source types

The book is accessible to several audiences. Researchers currently in the field can widen their understanding of HPM. Present or potential users of microwaves will discover the advantages of the dramatically higher power levels that are being made available. Newcomers to the field can pursue further research. Decision makers in direct energy acquisition and related fields, such as radar, communications, and high energy physics, can see how developments in HPM will affect them.

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