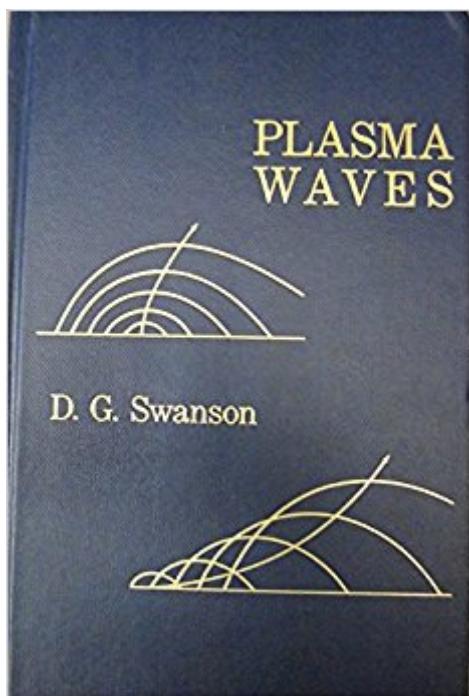


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Plasma Waves



Synopsis

Extended and revised, Plasma Waves, 2nd Edition provides essential information on basic formulas and categorizes the various possible types of waves and their interactions. The book includes modern and complete treatments of electron cyclotron emission, collisions, relativistic effects, Landau damping, quasilinear and nonlinear wave theory, and tunneling equations. The broad scope encompasses waves in cold, warm, and hot plasmas and relativistic plasma waves. Special chapters deal with the effects of boundaries, inhomogeneities, and nonlinear effects. The author derives all formulae and describes several fundamental wave experiments, allowing for a greater appreciation of the subject. --This text refers to the Paperback edition.

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Customer Reviews

"It's a fine text, and I use it with my graduate students as a tutorial text in my laboratory research." -- Professor Christopher Watts "This is a revised and extended version of a book which has already proved its value as an advanced text at postgraduate level. It contains a careful account of many of the properties of waves using the various possible levels of approach, and a good selection of graphs and surface plots which are a great help to the reader in visualising the behaviour of wave dispersion relations ... Any student who masters the material in this book and works through the problems it contains will have a very solid grounding in the theory of wave propagation. Research workers in the field will find it to be a comprehensive source of information on waves, including a number of topics which have only been found in research papers until now. I think this is a very

welcome addition to the literature which will be a valuable resource for teachers and researchers ... Swanson's book is certainly worth a place beside Stix on the bookshelves of anyone who needs to know about plasma waves." -- R A Cairns in *Plasma Physics and Controlled Fusion* --This text refers to the Paperback edition.

This is a very good book, I'm an electric engineer with basic formation in plasma physics, even thought this book was very comfortable to read since the author uses SI units and pretty standard nomenclature, which is not the case for other plasma waves books!It's a shame however that the problems are few and lots of them have no answer at all at the end of the book. Also a CD with the figures would be great.

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