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## Relativistic Broadening Near Cyclotron Resonance (Classic Reprint) (Paperback)

By Kaya Imre

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Relativistic Broadening Near Cyclotron Resonance In sec.iii. The zero order dispersion relation is derived. This relation differs from the cold plasma dispersion relation by the presence of a function A which generates the relativistic Doppler effects. Section IV is devoted to the special case of the Maxwellian unperturbed state. It is shown that in this case the results can be expressed algebraically in terms of the standard dispersion function Z. Thus providing a considerable improvement over the form given in Ref. 3, which contains an infinite complex integral or infinite series involving the function Z. Equivalency of the present results to those previously given is demonstrated to order T). The study of the per pendicular extraordinary mode. Which can be found in Sec. V, requires a second order analysis for the investigation of the lowest order Doppler effects. Certain discrepancies. Stemming from an improper evaluation of the second order terms. Are found in the previously published results. Section V also contains a study of the nearly perpendicular ordinary mode based on the results presented in this work. In the part G...

### Reviews

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