



Spectral Line Broadening by Plasmas

Hans Griem

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Spectral Line Broadening by Plasmas deals with spectral line broadening by plasmas and covers topics ranging from quasi-static approximation and impact approximation to intermediate approximations and correlation effects. Experimental results for hydrogen lines, lines with forbidden components, and ionized helium lines are presented. Applications such as density and temperature measurements are also considered.

Comprised of four chapters, this volume begins with an overview of the effects of electric fields from electrons and ions (both acting as point charges) on spectral line shapes. The next chapter surveys theoretical work, paying particular attention to quasi-static, impact, and intermediate approximations as well as correlation effects. Stark broadening experiments are then discussed, with special emphasis on experiments capable of checking the accuracy or validity limits of the various approximations. The final chapter is devoted to applications in laboratory plasma physics and astronomy, focusing on density and temperature measurements and opacity calculations as well as the analysis of stellar atmospheres, amplitudes and spectra of plasma waves, and radio frequency lines.

This book should appeal to students, practitioners, and researchers in pure and applied physics.

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