



## **Plasma Scattering of Electromagnetic Radiation**

John Sheffield

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Plasma Scattering of Electromagnetic Radiation covers the theory and experimental application of plasma scattering. The book discusses the basic properties of a plasma and of the interaction of radiation with a plasma; the relationship between the scattered power spectrum and the fluctuations in plasma density; and the incoherent scattering of low-temperature plasma. The text also describes the constraints and problems that arise in the application of scattering as a diagnostic technique; the characteristic performance of various dispersion elements, image dissectors, and detectors; and the general scattered spectrum for an unmagnetized, low-temperature, quasi-equilibrium plasma. The application of the general scattered spectrum for a magnetized plasma; the scattering from a high-temperature plasma; and the scattering from unstable plasmas are also encompassed. Plasma physicists and people involved in the study of electromagnetic radiation will find the book invaluable.



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