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6 CHAPTER 1. INTRODUCTION According
to the de nition of the Debye Length $D =$
 $(0kT e ne^2)^{1/2}$ (1.1)) $\log(D) = 1/2 \log($

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$0.5 \log(n) + 1.2 \log(kT) = 1.2$
 $\log(n)(1.2) + \log(kT) = \log(n) + 2 \log(D$
 $7430) (kT \text{ in eV})(1.3)$ Then we can draw
the solid straight line in the Figure??
with the Debye length as parameter
ranged from 10^1 to 10^7 . Points on a
certain solid line,

Solution to F.F. Chen's Plasma

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Physics

Introduction to Plasma Physics P.

Gibbon. mechanics. $n_e = Z n_i$. (1) ... $\mathbf{J} = e(n_e \mathbf{v}_e - n_i \mathbf{v}_i)$. $\nabla \times \mathbf{B} = \mu_0 \mathbf{J}$. Now that we have established what plasmas are, it is natural to ask where we can find... 1.1 Debye shielding. First of all, we need to know how fast the electrons and ions actually move. particles. ...

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Education. Chen studied at Harvard University, where he received his bachelor's degree in astronomy in 1950, a master's degree in physics in 1953, and his doctorate in 1954. At that time he worked on high-energy physics (

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proton-proton scattering and proton-nucleus scattering at the new energy of 1 GeV).

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undergraduate starting a summer of research into plasma physics, not for a graduate student concentrating in plasma physics.

General Plasma Physics I Notes AST 551

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Introduction This book grew out of lecture notes for an undergraduate course in plasma physics that has been

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offered for a number of years at UCLA.

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1.2.1 Derivation of the plasma frequency
Consider a steady initial state with a uniform number density of electrons and an equal number of ions such that the total electrical charge is neutral. Neglect

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the thermal motion of the particles and
assume that the ions are

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