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Prof. Chen is a plasma physicist with a career extending over 48 years and encompassing both experiment and theory. He has devoted about a decade each to the subfields of magnetic fusion, laser fusion, plasma diagnostics, basic plasma physics, and low-

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These notes are intended to
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definitions, basic properties, and
typical processes found in
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6 CHAPTER 1. INTRODUCTION

According to the definition of the

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Debye Length $D = \left(\frac{0kT e}{ne^2} \right)^{1/2}$ (1.1)
 $\log(D) = \frac{1}{2} \log\left(\frac{0 e^2}{kT e} \right) + \frac{1}{2} \log(kT e)$ (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

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ranged from 10¹ to 10⁷. Points
on a certain solid line,

Solution to F.F. Chen ' s Plasma
Physics

plasma's temperature and density.
An ideal plasma has many particles
per Debye sphere, i.e. $N_D \gg 1$

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3 D 1; (8) which is a prerequisite for the collective behaviour discussed earlier. An alternative way of expressing this condition is via the so-called plasma parameter

$$g \approx \frac{1}{n_e} \frac{3 D}{\lambda_D}; \quad (9)$$

which is essentially the reciprocal of N_D . Classical plasma theory is based

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As I've told several of them,
Chen's book essentially "leads you
by the hand" - going through
particle motions, gyro-frequencies,
adiabatic invariants etc., to
magnetic mirror systems
(including loss cone angles and

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Fermi accelerations applied to them) to plasma instabilities and MHD, whereas many others (even 'Plasma Physics' by Krall and Trivelpiece) tend to assume too much.

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Prof. Chen is a plasma physicist with a career extending over 48 years and encompassing both experiment and theory. He has devoted about a decade each to the subfields of magnetic fusion, laser

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fusion, plasma diagnostics, basic
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In 1954, Chen worked at the
Princeton Plasma Physics
Laboratory (PPPL), where he
worked initially with the Model B1
Stellarator, a device used to

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confine hot plasma with magnetic fields in order to sustain a controlled nuclear fusion reaction.

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sources, which are magnetized, Chen showed that radiofrequency gas discharges contain very interesting physics which can be treated in a logical and interesting manner. Chen ' s 57-year career in plasma physics can be divided into four approximately equal parts:

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magnetic fusion, laser fusion and
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