

## Chen Introduction To Plasma Physics Solutions

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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-temperature plasma physics.

## **Introduction to Plasma Physics and Controlled Fusion ...**

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In 1969, Chen went from Princeton to UCLA in California, where he organized an academic program in plasma physics. He wrote the first undergraduate textbook in this field in 1973. Soon after, however, powerful lasers were invented, opening up a whole new field of research.

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The third edition of this classic text presents a complete introduction to plasma physics and controlled fusion, written by one of the pioneering scientists in this expanding field. It offers both a simple and intuitive discussion of the basic concepts of the subject matter and an insight into the challenging problems of current research.

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These notes are intended to provide a brief primer in plasma physics, introducing common definitions, basic properties, and typical processes found in plasmas.

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6 CHAPTER 1. INTRODUCTION According to the definition of the Debye Length  $D = \left( \frac{0kT}{e n e^2} \right)^{1/2}$  (1.1)  $\log(D) = \frac{1}{2} \log(0 e^2) + \frac{1}{2} \log(kT e)^{-1} \log(n)$  (1.2)  $\log(kT) = \log(n) + 2 \log(D / 7430)$  (kT 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,

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plasma's temperature and density. An ideal plasma has many particles per Debye sphere, i.e.  $N_D n e^4 \gg 3 D^{-1}$ ; (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,  $g = \frac{1}{n e^3 D}$ ; (9) which is essentially the reciprocal of  $N_D$ .  
Classical plasma theory is based on the assumption that  $g \gg 1$ ,

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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 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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In 1954, Chen worked at the Princeton Plasma Physics Laboratory (PPPL), where he worked initially with the Model B1 Stellarator, a device used to confine hot plasma with magnetic fields in order to sustain a controlled nuclear fusion reaction.

## **Francis F. Chen - Wikipedia**

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By developing helicon plasma 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: magnetic fusion, laser fusion and laser accelerators, low-temperature plasma physics, and plasma ...

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