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by J D Callen Lecture 1 - Definition of a plasma, examples, plasma temperature, Debye shielding, plasma criteria
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20A Plasma Kinetic Equation | Introduction to Plasma Physics by J D Callen
02A Criteria For Plasma State | Introduction to Plasma Physics by J D Callen
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Electron plasma waves, ion acoustic waves

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Overview ~~Lecture 6 - Magnetic drift of a~~

~~plasma fluid perpendicular and parallel to a~~

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~~Description of the plasma state - Intro~~

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6 CHAPTER 1. INTRODUCTION According to the definition of the Debye Length $D = (\frac{0kT}{e n_e})^{1/2}$ (1.1) $\log(D) = \frac{1}{2} \log(\frac{0}{e n_e}) + \frac{1}{2} \log(kT)$ (1.2) $\log(kT) = \log(n) + 2\log(D \cdot 7430)$ (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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Solution to F.F. Chen's Plasma Physics

plasma's temperature and density. An ideal plasma has many particles per Debye sphere, i.e. $N_D n_e \gg 1$; (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, $g = 1/n_e \lambda_D^3$; (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,

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