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the three Boston ones being third-generation soccer players, and the French one a four-language linguist and former equestrian. Finally, I would like to thank all the instructors and students who have used the

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To avoid confusion on the number of dimensions involved, it is not E_{av} but the energy corresponding to kT that is used to denote the temperature. For $kT = 1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$, we have $1.6 \times 10^{-19} \text{ T} = 1.38 \times 10^{-23} = 11,600$ Thus the conversion factor is [1-11] By a 2-eV plasma we mean that $kT = 2 \text{ eV}$, or $E_{av} = 3 \text{ eV}$ in three dimensions.

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$2)2 (R a 2)2] = 2 \sqrt{Ra}$ The number of charged particle, which hit the surface swith in time of dt is: $N = n v s dt$: So the hit rate is $dN/dt = n v s$: Since $R_c a$, the drift velocity with $[R a 2; R+ a 2]$ region can be considered as uniform. So the accumulation rate is $R_{acc} = n v R + r B s e = 4 \sqrt{k T n a B} = 20 \text{Coulomb} = S$ Problem 2-20 a) $v^2 k + v^2 ?$ is invariant because of the conservation of energy.

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A. A. Mamun and P. K. Shukla, Introduction to dust charge fluctuation, Cam. most textbooks in plasma physics have an introductory part describing single 2 F. F. Chen, Introduction to plasma

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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.

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This book grew out of lecture notes for an undergraduate course in plasma physics that has been offered for a number of years at UCLA. With the current increase in interest in controlled fusion and the wide spread use of plasma physics in space research and relativistic astrophysics, it makes

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the national awareness of the important applications of plasma

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physics to energy production and to the understanding of our space environment. In magnetic confinement fusion, this period has seen the attainment of a Lawson number nTE of $2 \times 10^{13} \text{ cm}^{-3} \text{ sec}$ in the Alcator tokamaks at

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Homework for 029:194 Plasma Physics I Week 1. Due Tuesday, August 31, 2010. Skim through the NRL Plasma Formulary to familiarize yourself with its contents. Read Chapter 1 of Gurnett & Bhattacharjee; Read "Plasmas" by Harold Grad (1969), *Physics Today* 22: 34-44. Due Thursday, September 2, 2010, Read Chapter 2 of Gurnett & Bhattacharjee

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