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Prof. Peter S. Shawhan, Room 4205B In The Physics Building, Pshawhan@umd.edu, 301-405-1580 If You Have A Question Or Issue That Can't Be Handled During Office Hours, Please Email Or Call Me. Teaching Assistants: Anirban Gangopadhyay, Guil Miranda, Conner Ro Feb 17th, 2024

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- The Transition Zone Between Bulk Plasma And A Surface, The SHEATH, Is Fundamental In Plasma-surface Interaction, Plasma-assisted Deposition Of Films, And Ion Extraction In Ion Sources.
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Introduction To Plasma Physics, By D. A. Gurnett And A. Bhattacharjee, Cambridge,

2005 (ISBN 0 521 36730 1 Paperback). Introduction To Plasma Physics And Controlled Fusion, Volume 1: Plasma Physics, NdFrancis F Chen, Plenum Press, 2 Edition, 1984 Dynamics Of Magnetically Trapped Mar 3th, 2024

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PHYSICAL CONSTANTS AND CONVERSION FACTORS

Quantity	Symbol	Value
Boltzmann constant	K	1.3807×10^{-23} J/K
Elementary charge	E	1.6022×10^{-19} C
Electron mass	M	9.1095×10^{-31} Kg
Proton mass	M	1.6726×10^{-27} Kg

Proton/electron mass ratio M/m 1836.2 Planck constant h 6.6262×10^{-34} J-s $\hbar = h/2\pi$
 1.0546×10^{-34} J-s Speedo Apr 1th, 2024

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JOURNAL OF PROPULSION AND POWER Vol. 21, No. 5, September–October 2005
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Studies G. Khazanov* NAS Feb 15th, 2024

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6.69in B3496-ch01 Page 2 2 Fundamentals Of Theoretical Plasma Physics Let
 $F(r,v,t)$ $D^3r D^3v$ Be The Expected Number Of Particles To Be Found In A Volume
Element $D^3r D^3v$ Of Phase Space About R And V At Time T . The volume Element $\Delta\mu \equiv$
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magnetospheric Plasma Propulsion (M2P2) Device, Originally Proposed By Winglee

Et Al., 1 Predicts That A 15-km Standoff Distance (or 20- Jan 19th, 2024

1 Plasma Physics Fundamentals - Cambridge University Press

Plasma Physics Fundamentals 2 2 3 Finally, The Disturbance Communication In Plasma Is Not Only By Means Of Collision Processes But Also Conveyed By Transverse Wave With Phase Velocities Equal To The Speed Of Light. Plasma In The Gas Phase Has A Negligible Shear Stre Mar 8th, 2024

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li.) Landau And Lifshitz, FLUID MECHANICS lii.) Landau And Lifshitz, ELECTRODYNAMICS OF CONTINUOUS MEDIA Iv.) James Lighthill, WAVES IN FLUIDS V.) Gregory Falkovich, FLUID MECHANICS FOR PHYSICISTS D.) Nonlinear Plasma Theory; Nonlinear Dynamics I.) R. Sagdeev And A. Galeev, NONLINEAR PLASMA THEORY li.) A Apr 10th, 2024

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