Plasma Physics

MSc. Physics Semester 2

Paper - MPHY CC6

Unit 5

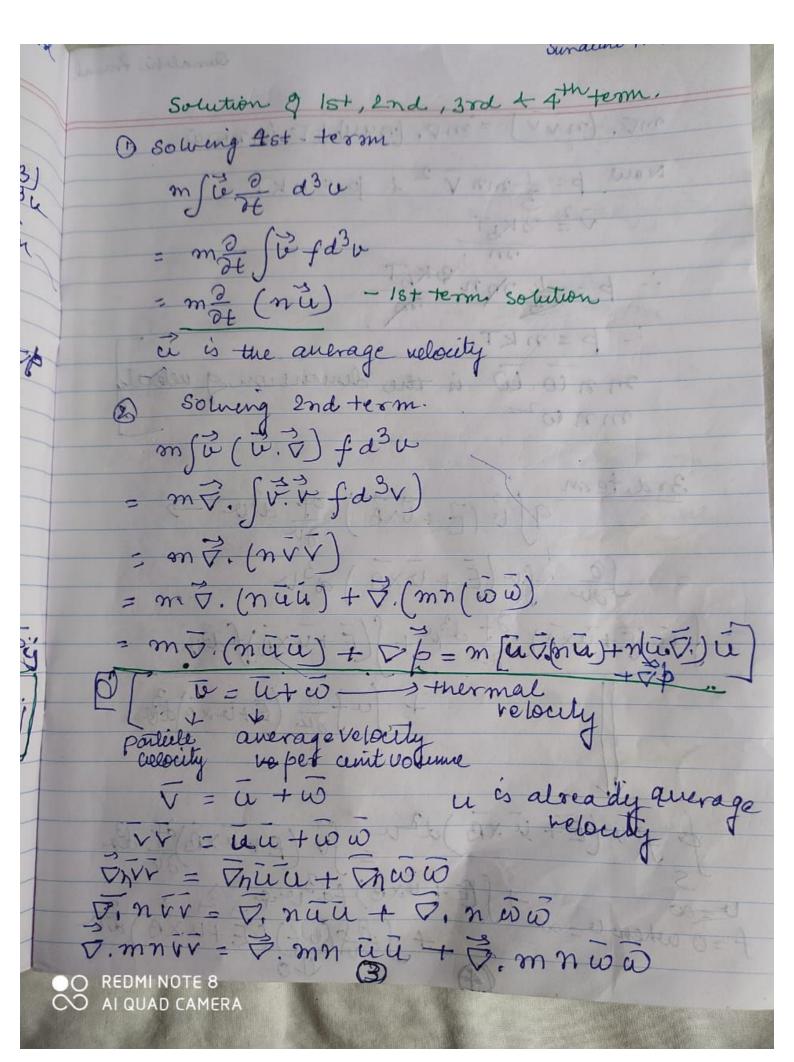
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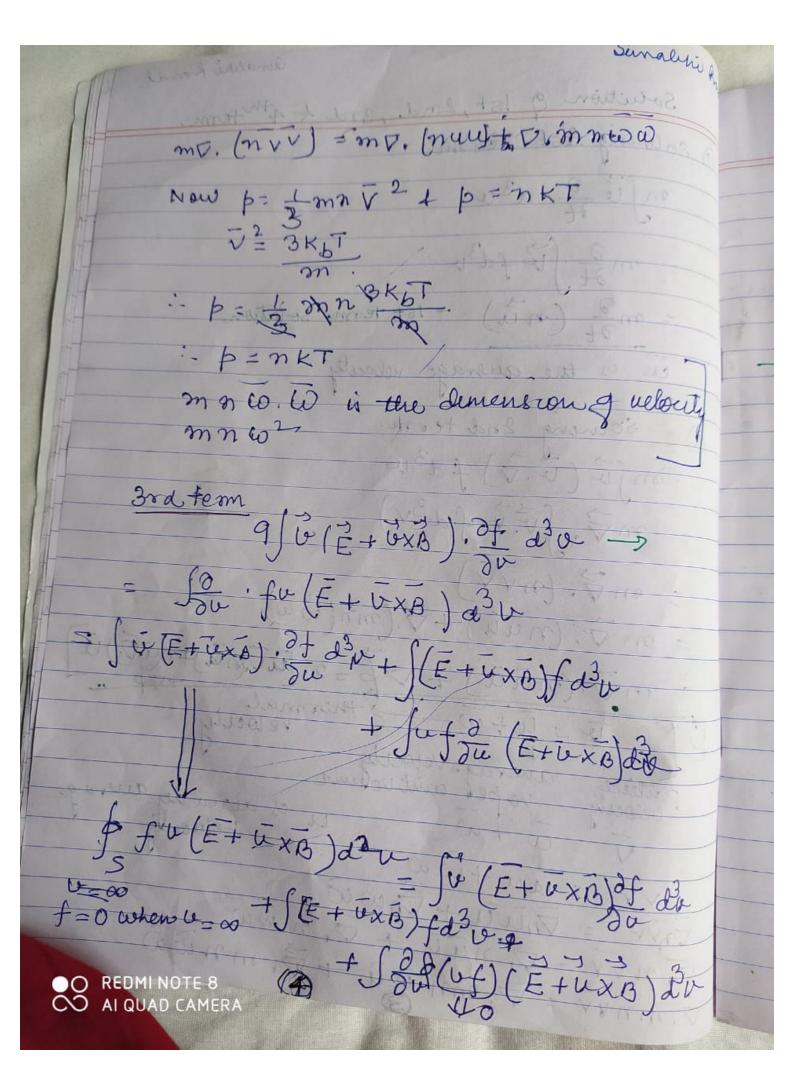
Dr. Sunabhi Deptt & Physics Plasma Physics Homentiem Equation from Bottzmann er, suid equation of motion from Bottsmanneger. of the howest moment by using of the moments of the Botts makin equation where the housest moment is obtained by unlighting [] Ist orden momentem en Plasma. (2) + (0. P) + 9 (E+ ax3). 2f die = (2+) by integrating [] the lowest moment of JEt du + Ju Ffdv + 9 E+VxBJ of du Pot du equation over velocity space m ju dt du + m ji (i. v) f du term 1stterm mg ji (E + uxb) t du= smulg 3rd term 4th REDMINOTE 8

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Plasma Physics (mu) + m [at. (nu)+n (u. -900 [E + UXB] = Poj + ma 2n + m - un + m (u. 7) stituting 1st, and, 3rd & 9th term (solution) the Plasma inomentum equation Or Equation of motion of Plasma fleir From Continuity equation

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Sunabhikasak
Raw Q(uf) = & is the function of & uf
· [1] (E+UXB) of d30 (7 E+UXB) fd30.
we know (ufd³v = nu soln: $\rightarrow \Rightarrow -m(E + ixB)$ $\rightarrow 3hird + erm$
In a (of) de = Pij - Fourth term Pi, he present momentum change due
Pij représent momenteum change due to collision.
This notes is from Plasma Physics - F. F. Chella

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