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(Junius Herman)

ANALYSIS OF ELECTROMAGNETIC WAVE PROPAGATION IN A MAGNETIZED RE-ENTRY PLASMA SHEATH VIA THE KINETIC EQUATION



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No binding. Book Condition: New. This item is printed on demand. Original publisher: Cleveland, Ohio : National Aeronautics and Space Administration, Glenn Research Center, 2009 OCLC Number: (OCoLC)679675528 Excerpt: . . . where the terms that contain the factors vanish, i. e. , $l l i l i l l (3.45) 0, 0 2 2 2 2 s s l l l l$, L , Similarly, using Equation (3. 37) in Equation (3. 43) and solving for yieldss $z i l s s E (3.46) L$, , $2 K 1 L$, , $s z s R l s z 2 L s z l l$ At this point, it will facilitate further evaluations to simplify Equations (3. 44) and (3. 46) by analytically performing summations over the parameters l where possible. Hence, using the summations $i i l s s (3.47) i l \cot L$, $l i l c s c L s s 2 2 2 2 s s l l l l$ allow Equations (3. 44) and (3. 46) to be written, $i 1 i s E (3.48) 0$, , $K L$, , $c s c L s z s R l s z s 2 2 2 s z l l$ and $i 1 l s E (3.49) L$, , $2 K 1 i L$, , $\cot L s z s R l s z s 2 2 s z l l$, 0 , , L , Finally, the solution of these relations for and is straightforward; after usings $z s z$ some trigonometric identities, integral $l (3.50) L$, $\exp 2i L 1 C l 1 E s z s s R l l l (3.51) 0$, , $C l E 1 \exp 2i L \dots$



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