

411 E S2 (C-V) $\overrightarrow{B} = - \overrightarrow{S} \times \overrightarrow{E} = - \cancel{X} \times \overrightarrow{E}$ to the left new: Some as before except that $\hat{S} = -\hat{X}$ so $\hat{N} = -(c+\hat{V})\hat{X}$ end S.u-S(C+V). This then gives $q = S = (c^2 v^2)(c+v) \times$ 4150 53 (C+V)3 = -9 + (C - V) = -9 + C + V = -7 + C + V

As before, B=0 From the Cross product. (b) In equation 10,75 R is 1s at time t- In part (c) s is of time tr Since R=s-v(t-t_) $R = s - \sqrt{t - t + s_2}$ $R = S \left(1 - \sqrt{2} \right)$ $v_{\Gamma} \leq = R / (1 - V / c)$ It is then simple elphone to show that the two

