ELECTROMAGNETIC WAVES

111.. Di5placement current Er, ___ = Er, cif.E • COV
dt dt dt

[211. Maxwell's -Equation:

{a] It = [ID) 441.J; =0

1: E - d1 = d r • dS 1W 4 B dl = (1,

1311, E = Ei3 —kx) and B2 = Ba,sin {rat- kx)

Sivuvry. -4,1o8o CrPeElihell 41.-L.F-Lo2rea

E E _MS c
B6. B RMS.

(5). Average of wave I Av-efase eneFsy density k [speed of I ightli

4.0___2440 2[.aci

;n 5tainta neou 5 ellerRY density ud. = 2 EvE +— = .E0E2 = 62 — B2 10

Avefage EnnfigN densEtV u ay = ci-] 1 Bo2 4F.Lo = E|| 2 = Ie 2120

Energy : OT1CIMEF1EII M E, C it U 7 Ft

{811. Radiation. or.assuba R.P. = where Ie, Is intensity of source [when the wawa Is totally absorbed)

And RP- = 1,, when the wave i5 totally reflected)

~~MI.k 1 t^a ifor a point 5aurre) an4 1 tix 1 r Ifor a lir source].~~

Foe a Mane sources interisIty is Irderie'ride.nt of •_