

= - IABCOID

0	Biot-Savarl Law at 1000 25	Faraday's Law
. 13	3- 9 dB = MoI dsxc	Faraday's Law Eans = - d 90 At
	To 2	1 2 2 2 3
		PB = \$ B-da 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Ampere's Law: turns I	
	Uz Uz + Um Inax = w Qman	Time varying B-field > FMF=10
	B.du= M.Ist 100 =	
	Q= Acos(wt+4)	Known stored in the Heady corporation
	Fauss's Law for 57 = W	Elf inductance
	nagnetism:	c de
	KEC armita! 27	$\mathcal{E}_{L} = -\frac{d\mathcal{P}_{g}}{d\mathcal{E}}(V\Delta) + -V$
	* 7. ([xa] = Q. ([xx]) - P. ([xa]) * 7. ([xa]) = Q. ([xx]) = Q. ([I dI
	To Pode P- RdV-0	EL= - Laternolog situation
	DB= & B. ds = & BdV = 0	1 NON A (() =)
6	Manyere - Marvell Law Man 3	L-MoNA (for solenoid)
100	Tunis and # 1 = 0	Energy stored in the magnetic field
	B.ds=MoI+MoEodDE = I	Energy stored in the magnetic field $U = \frac{1}{2}I^{2}L$
1.00	Id = Eo de Vaisplacement	U= 212L
	LANT WIA CUTETA)	Energy density to it the field!
	DXB=poJ+p.E. dE	$u = \frac{n^2}{2\mu_0}$
	The Over	PETENET IN = EN
	Magnetiz Susceptibility	19 30 wave equation
	12 - Te W = TE	$= \sum \frac{1}{2} \frac{8}{4} = \frac{1}{\sqrt{2}} \frac{8}{5t^2}$
	arten Br= XAIB 3 -12 rose & Verce	• • • • • • • • • • • • • • • • • • • •
Ø 5	CAN THE CONTRACTOR	Ac works
	Taight Lic Field) (reason	16.11
	H= B-M xamV	T= Ima sin (wt-b) Ims=
	Mo	EN 13
	H= (MoMr) B	dy 42

 $\phi = \arctan \frac{x_1 - x_c}{R}$ $I = \frac{\varepsilon_{nox}}{Z} e^{i(wt - \phi)}$ (p) = Irms DVrms cos p AC curents: I(t)= de = Ee Magnetic Fall Story Imax = Imax I= Imay sin (wt-p) DVms: Vmar $\frac{\mathcal{E}_{S}}{\mathcal{E}_{b}} = \frac{N_{S}}{N_{b}}$ H. (July) " R