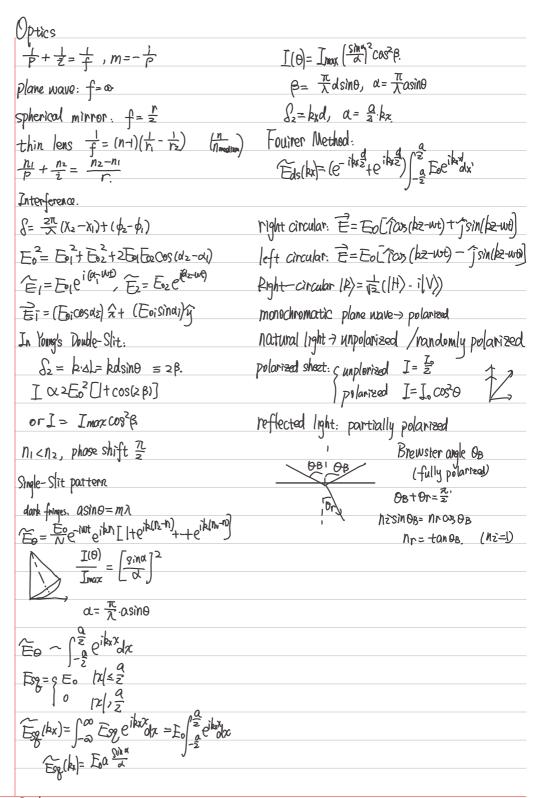


电磁学	
7 F E= 9	enf $\xi = \frac{W}{3}$.
ラー 1 2 c	V
Ez=1, P.	$P = iV$ $P = i^2 R = \frac{V^2}{R}$
P= 8d	Energy density $u = \pm S E^2$.
ī= BXĒ	$U=\frac{2^2}{2C}=\frac{1}{2}CV^2$
Gauss! Law Eof= Fenc	Gouss' Law with a dielectric = KEE
φ= \$ E dĀ	ØD.dA= & Øk=dA=8.
Uniform sphere of charge $E = \frac{8}{4\pi 6} R^3$	y 5
infinite sheet: $\vec{L} = \frac{\sigma}{2\xi_0}$	FB=80x B. FE-8E
Infinite line of charge $E = \frac{\lambda}{2\pi \xi_0 r}$	FB=zZXB
Uf-Vz=-(f = ds	$\overrightarrow{\mu} = Ni\overrightarrow{A}$, $\overrightarrow{p} = g\overrightarrow{d}$.
Ez=-32, Ey=-34, B=-32	TB= DX B, TE= PX E
V= 41180 r.	$w = \frac{l \forall B}{m}$ $r = \frac{mv}{g_B}$
V= 47180 PC060	Hall effect.
V= 4118 12 12	PH= F ng
$V = \frac{1}{4\pi\epsilon} \int \frac{d\vartheta}{r}$ $U_{\text{tot}} = \frac{1}{4\pi\epsilon} \int \frac{d\vartheta}{r} \frac{\vartheta i \vartheta i}{r i j}$	Biot-Saibre Law
D×Ê=0, ≧=-DV	dB= 47 r , dE= 47180 r ?
ν== ε .	ØB·ds= Mozenc. → VXB=MoJ
Polsson's Equation o ² V=- &	PEDA = B - VE = E
βĒ·ds=0.	$\nabla \vec{B} = 0$, $\vec{\phi} \vec{B} d\vec{A} = 0$
outside a conductor. 戸=を介	B= Moi B= MoiZIR2.
$ \hat{c} = \frac{d\vartheta}{dt} $ $ \varrho = \frac{1}{D} = \frac{m}{ne^2t} $	B=Moin B=Moi N
$\vec{t} = \int \vec{J} \cdot d\vec{A}$ $C = \frac{8A}{A}$	и=NiA, P= 82
J=nevol C= ZITEO (1/2)	TB=ZixB, TE=PXE
$\frac{\partial Y}{\partial t} = -V \cdot \vec{J}$. Capacitance anly de	pends on UB=-U·B, UE>-p·È
R= z geometrical factor	S B= 2n 23, E= 2nc, 23
Ê= Q] '	

duba
$\varepsilon = -\frac{d\Phi_B}{dE}$ Maxwell's equations:
ΦĒ·dŠ= -a (B·dĀ V·Ē= €, V·B=0
$L = \frac{N \phi_B}{2}$ $\vec{F} = g(\vec{E} + \vec{v} \times \vec{B})$
1= Mon2(A \(\frac{7}{2} = \frac{1}{2} = \frac{3^2 \text{E}}{2 \text{Ot}^2}, \(\frac{7}{2} \text{B} = \frac{7}{2} \text{B}^2 = \frac{7}{2} \text
$U_{B} = 2 \overrightarrow{L} \overrightarrow{l}^{2}$. $\widehat{R} \cdot \overrightarrow{E} = \widehat{R} \cdot \overrightarrow{B} = 0$
$U_{B} = \frac{B^{2}}{2\mu_{0}}.$ $\overline{B} = \frac{1}{C}(\widehat{R} \times \overline{E})$
$T_c=RC$, $T_c=\frac{1}{R}$
$M_{12} = M_{21}, \mathcal{E}_{1 2} - \mu_{1} \frac{di_{1}}{dt}$
M = M M M
$\mathcal{E}_{2} = -\frac{d(N_{2}\phi_{2})}{dt} - \frac{di}{dt}$
$T_{L} = \frac{L}{R}, \mathcal{E} = \frac{dl}{dt} + Ri$
$T_{c}=RC$, $E=\frac{g}{c}+R\frac{d\theta}{dt}$
$z = \frac{e}{E}(-e^{-\frac{\pi}{4}})$
2= CE(1-e- te)
U=UE+UB, UE= 20, UB= 2 Li2
$\frac{du}{dt} = -i^2 R$
$\iint \operatorname{oscillations}_{c} \frac{d^{3}k}{dt^{2}} + \frac{2}{C} = 0$
$g = Q \cos (W_0 t + \phi)$, $W_0 = \frac{1}{\sqrt{LC}}$
Damped in RLC: $L\frac{d^2}{dt^2} + R\frac{d^2}{dt} + \frac{2}{C} = 0$
$g = Qe^{-\frac{1}{E}} \cos(\omega t + \phi)$
$Q = \langle \overline{Q} e^{i \hat{W} t}, \omega = \sqrt{w_0^2 (\frac{1}{\tau})^2}, \overline{\tau} = \frac{R}{2L}$
Forced oscillations: driving angular frequency was
E= Emais Wat.
$\bar{z} = I \cos(\omega_a t + \phi)$
Resonance. equally aspacitive and inductive
$\frac{1}{\mu \pi C} = \mu \omega L$ ($\omega_0 = \omega_0$)
$I = I_{\text{max}} = \frac{2m}{R}, \phi = 0$



Rayleights criterion $\Theta_R = \sin^{-1}\frac{1-22\lambda}{\alpha} \approx \frac{1-22\lambda}{\alpha}$

8	Quantum Mechanics
P	Spectrum medicinis $ P = \frac{k}{\lambda} = \pi k $ $ = \hbar \omega = k + W $ Simpton Wavelength $\frac{k}{mc}$ $ = \frac{k}{mc}(l - \cos \phi) $
Ţ	$= -\hbar w = k + W$
4	- 1 h
Co.	mpton Wavelength mc
	Shift 4) = mc (1-005p)
	→ P R. 左旋
1 -	→ P 尼 左旋 → P 尼 左旋
	Virte