Electric Carrent	E. lectos latics
LAC IAID ITEMPORE	Electros Latics
Iarg = AQ	e=1.60 x 10-19 C
· At	mē= 9-/x 10-31/49
Tins = dQ	mp=1.6301 x lo-27 lig
d€	m No. 1.675 x 1027/Kg
DO= (nA Dx)9/	F-169,92
Dx = Va Dl	δ ²
DO = nAVODEN	K = _
Iar, na Va A	4 TEO
V. IR	$\frac{1}{\sqrt{x}}$
J. I	46068
A	8303-3
J= ng/Va	E = F
J. of	<u> </u>
DY: EL	E. KQ
R= p.L	8 ²
A	F= NE
R- L	t= 1 and
σA	2760 Z
D = po [1+ ax (T-76)]	Ø G G A
∞= L Ap	O = EA Gos O
Po AT	$\phi = \frac{Q}{C}$
R. Ro[1+∞(T-To)]	€0 E= 1 → 1= Vl
PEIDY	The second of th
$P_{z}T^{2}R$	E= o -> injuste sheet
P=Y2	E= → injuste sheet
K	
P=IE	E= 0 -> two parallel sheet
I. E/R	
	$6 = 1$ $QL \rightarrow At$ a Suspace $4\pi E_0 R^2$

1 Oscillations	11
Fe-Kx	-
a = -1/x	-
m	1
T= 1	
f in the second	
x(l) = xm Cos(wf+ ())	
a 2T	
$\omega = 2\pi_{\ell}$	
v(t) = -wxm Sin (out + 0)	
$Y_{m} = -\omega \times m$	
a(b) = -w2 xm Cos(wf, 0)	
$a_{m} = -\omega^2 \times m$	
LU = K -> Spring	
\sqrt{m}	
$T = 2\pi / \frac{m}{m}$ -) Spring	
$\int \mathcal{K}$	
- U(b) - L Kx2 - x2m Cos2 (w.f + Ø)	, J
2	
K(t) - 1 my = 1 mw2m Sin2(w.f. 0) - 1 kxm2 Sin2(w.f. 0)	
$\frac{k(t)-1}{2}mv^2=\frac{1}{2}m\omega^2x^2m\sin^2(\omega t+\emptyset)-\frac{1}{2}kxm^2\sin^2(\omega t+\emptyset)$	
E= U+K= 1 Kxm2	7
2	N.
Z=- L(Fg SinO) = Ix	
7 0-57 DAD	
T= 27 () Pendulum	
FRONT T DIA	- 54
T= 2T I -> Tossion Pendulum	
JK	
x(t)= xme bt/am (os (ait + B)	- 45
$\omega' = \int \frac{L}{s} - \frac{b^2}{m}$	
J m 4m2	and the second second

Waves y(x, t) = ym Sin(kx-wit) T= 2I u= -wym Cos (Kx-wt Oscillating term Magnitode