2. 9 = 0.35 m	F= qVB sin 0
DV = 600 V	- ILB sin θ
B = 0.8T	
(w = ?	
a) $\Sigma F = ma = q / B sin \theta = m / 2$	
W= qBsin0	
m l l l l l l l l l l l l l l l l l l l	
= 1.6 ×10-19 × 0.8 × sin 90	
1.67 × 10-27	
20d/sec	
b) W= v	
શ્	
V W R	
= 0.35 W m/s	
C) KE = 1 mv ² J	
2	
= 1 mv² x 1 eV	
2 1.6710-19	
4 m = 0.5 g lcm = 0 5 x 10 ⁻³ kg 0.05 kg/m	
Q (0-2 m	
I = 2A	
(a)	
ZF=ma 9=9.81 m/s2	
ILBsin 0 = ma	
A LANGE LANG	

Ilsino
= m a
E M X B
= 0.05 × 9.81
2
6) Dîrection: W-> E
Chapter 30
$1 \cdot B_{P_0} = -B_1 - B_2$
$\frac{1}{2\pi i} = \frac{1}{2\pi i}$
2112
= -2 x 417 x 10-7 x 8
= - 1 × 4y × 10-7 × 8 Py × 4 × 10-2
-4×10-7×102
- 4 x 10-5
b) Bp = -B2 + B1
= - 4t x 107 x5 + 41 x10 x 5
2/1 × 20×10-2 2/11 × 10×10-2
b) $B_{p} = -B_{2} + B_{1}$ $= -\frac{1}{4} \sqrt{1} \times 10^{7} \times 5 + 4 \sqrt{1} \times 10^{7} \times 5$ $= -\frac{10 \times 10^{7}}{2} \times 10^{2} + \frac{10^{5}}{2} \times 10^{2}$
20
$= -5 \times 10^{-5} + 10^{-5}$
$= -4 \times 10^{-5}$