

UNIVERSIDAD DE SAN CARLOS DE GUATEMALA FACULTAD DE INGENIERÍA ESCUELA DE CIENCIAS DEPARTAMENTO DE FÍSICA FISICA 2 INGA. CLAUDIA CONTRERAS

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Problema 1.								
10				*10				
17 Ta	1	m	= 1.	67 ×	10-87	kg.		
	AE !				N/C			
	R			K103 m				
		_						
VIR			a =	69	1			
				m				
Fy = ma => F =	69							
		0	= (6	-96	(1.6	× 10-19) = 6.	96
Vi= Vx= 10 x 103 m/s					67×10			
2 3 4 4 5 4 5 6								
11x= x = R	37 1	REEL	12					
VX= 2 = B 6								
100 Vo. 0		1 = X	70	Int.	119	62		
7++2				194	5			
A Part of the last	Yc	= 1 (2/12	12	- 1	a Ri	6	
- 100 mm 100 mm	-3 6-1	= 1 0	1	-]	5	17		
R = 9 =>	202							
8 = 9 => RX ZU2	a	1 3500						
	100			6	= 0). 3 m	7	
R= 2(10×103)	= 0.28	7 m.						
(2.96×104)								
		2 42 6	100	4	1		16.91	
Problema Z.	Vo = (6.50 × 11	0 m/s		n	ne=	7.1094	*15
E=0.	E = -	1.1 + 10	NIC					
Vo Ser Tion	9ē =	-1.60	×25	10-19	C			
A COLONIA								
+ 6 cm -	a.	4 = 1 - 0	E	-61.	6022	*10-19)	1.1×10	5)
12cm			ne		9.10			
ay = -1.934 x104 m	lsz							
S 23 2 3 2 3 3 4 5 1 1 1								
x = Vot => t = 0	2.06	= 9.0	3 *0	5°S.		100		
	.5 *106							
Vo				Dy=	-8.2	38 *10	-3 m	
No les poles y								
16-70 = Vot +1 at	tz				Ay =	8.2	4 *10	s n
Dy = 1 (-1.934*10"								

Problema 3:	$d = 4.7 \text{ mm}$ $h = 1.0 \text{ cm}$ $\chi = 10 \text{ cm}$ $V_0 = 5.10 \times 10^{7} \text{ m/s}(\hat{x})$ $V_{0y} = 0$
b) to y: yo + 167670+	
	$a = 2(4.7 \times 10^{-5}) = 2.44 \times 10^{5} \text{ m/s}^{2}_{4}$ $(1.9607 \times 10^{9})^{2}$
O) E =	E= 13.9 LNIC
Problema 4: m= 5.0 g q= 40 mC Ex = 7.5 N/C	$V_{4} = 50 \text{ m/s}$ en t=0. $V_{x} = V_{4} = 0$ $Q = EQ = Z.5(40 + 10^{-8})$ $V_{4} = 2$ en t=2s m 5×10^{-5}
Vox=0 Vex= Vox + axt Vex= vo(z) = 40, Vfx= Vx	
Vey = Vy.	

Problema 6:	9 = -4.00 mC m = 50.09	b)	ay = 89 - (3000)64 *10
	6= 3000 N/C.		$m. (50 \times 10^{-3})$
Vo (00).	Vo = 20 mls. L= 0.450 m	14	91= - 240 m/sc
++++++	Voy = 0.		V.y: Vog2+ at.
al t= 2	0.450 = 0.02255.	10	Vy = (240) (0.0225)
Vox	20		Vy = 5.9 m/s
by = Voyto	t 1 at²		Ay = -60.8 mm
)(0,0725)2 =-0.0607	5 m	a = -240 m/s2
			1 1 1 1 1 1 1 1 1

	Problema 6: W= Uo-UF.
(a)	P= 6 w Cm +
	O== Ti/3 Vo=-(6 × 10-0) (1 × 103) COS Ti/3 =- 3 × 10-35
	6= 1 ×102 N/C
1	UF= - (6*10-6)(1*105) COSO° = -6*10-55
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	We= - 3 * 10-3 - (-6 * 10-3) = 3 * 153 5.
	WE = 3 * 103 J.
6	Icm = 1.1 + 10 1 kg m
	363 - 2 5 10 10 10 10 10 10 10 10 10 10 10 10 10
	Us + KB= UF + KF W= 2(-3*10-3+6*10-3) = 23,554.9 rad/s.
	Un-Ut-KF. V 1.1 *10-11
1 100	U. + VE TIW2
	[2 (U2-U2) = w W= 23.35 *103 rad/s.1
	VII



