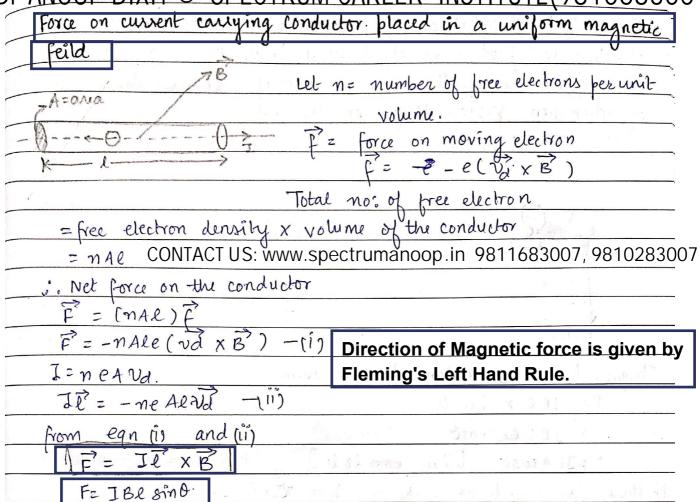
Dr ANOOP DIXIT @ SPECTRUM CAREER INSTITUTE (9810683007)



Torque on Current Carrying Rectangular Coil placed in Uniform Magnetic Field:

B= uniform M.F

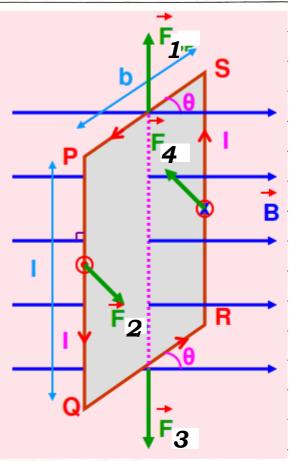
J= current

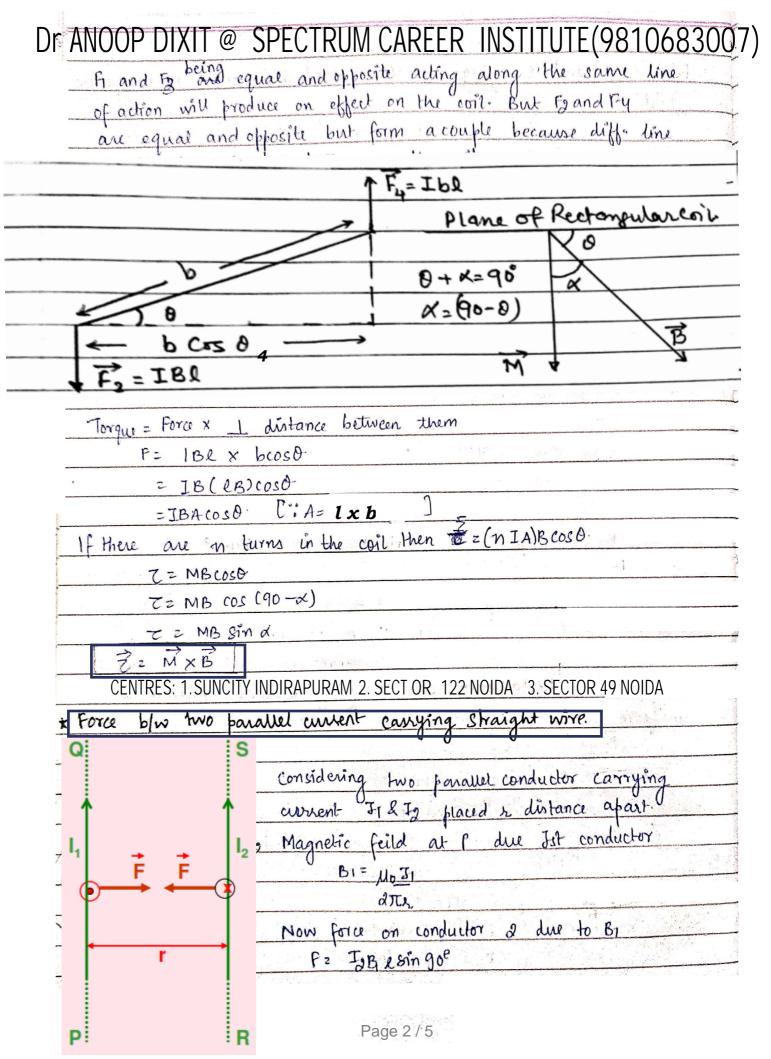
L&B= Dimension of rectangular coil

Fi= IBbsin (180-0)

Fi= IBbsin 0

Fy= IBbsin 0



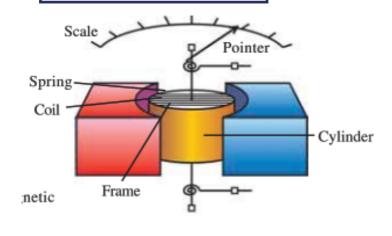


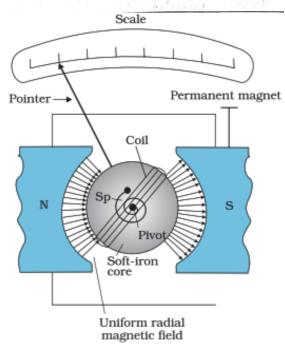
## Dr ANOOP DIXIT @

Z Ja Mo II = Force F=2×10 I1 I2 N/metre. the currents are 11 there will be force of attraction and if anti-parallel there will be force of repulsion. CONTACT US: www.spectrumanoop.in 9811683007, 9810283007 Ampere: - 1 Ampere is that current which when flows through of long conductors placed in vaccum at time Im intimitely abart. Then they will experience a force

## **Moving coil**

## **Galvanometer**





Purpose: - It is used to detect and measure small current in an electrical circuit. -HOTTIN

Principle: - When a current carrying rectangular coil is placed in an torque which is magnetic feild . It . experiences eetly proportional to current flowing SUNCITY INDIRAPURAM 2. SECT OR 122 NO DA. 3. SECTOR 49 NOIDA McG radial magnetic feild is used in order to obtain

Dr <u>ANOC</u>	P DIXIT @ SPECT	TRUM CAREER	INSTITUTE(9810683007	
	For radial Magne	etic feild x=90°		
	Z=>Zmax			
_ When			ng concave magnet and	
<u></u> <u>so</u>	ft iron cylindercal cor	e	U . U	
	ALM = 5		do throng at high	
w	nere no: of turn		The state of the s	
	Az Alea oj coil		*	
	B= magnetic fe	ild	- Emis of selmA	
- Nh	en coil sotates recoil	spring produces	restoring torque	
	712 KD		1 to just war top a	
unde	u equilibrium condib	son	7	
	727			
	m JAB = KQ.		· Ŋ · ,	
	I = K O.		1 / /	
	WAB			
	I = 90°	,		
_ whe	re 92 galvanomel	tes constant - (	NAB) K = torque pennit	
	= 1 00-	٠ الأمني و ١٠ ١٠	Constant)	
Restoring string is made up of PhosphorBronze as it has very			Bronze as it has very	
veri	(1)	1 11	very high tensile strength.	
	esult very small cum	and the second s	1 ()	
	ONTACT U\$: www.spect			
	It sensitivity:- It is a		angle of hwist perunit current	
Fuewi	ng through galvanome			
	Je 2 9 = 1	= NAB Rad/	Ampere.	
CENTRES: 1	I.SUNCITY INDIRAPURAM 2. S	SECT OR 122 MOIDA 3	8. SECTOR 49 NOIDA 4. KAKADEO KANPUR	
	-0-			
Voltage sensitivity :- It is defined as the angle of twist per unit				
potential diff. applied across galvanometer.				
	V52 0 2 Q = 1 V 1R GR	- = NAB	Rad Noth	
	V IR GR	Page 4/5		
		raye 4/3		

