Coment passing through the coil Bosic De Voltmeter: rovip or suprot pollotivi) soll 5 douberopring of 8- deflection of the meles Ko= NEAT -> A oc Vollmeter is use to measure the potential difference between 2 point in a de Curcuit (or) chet Component -> The basic DArsanval movement is Converted into Voltmeto by using a Series resistoricalled as Multiplier

- , the tunction of multipliers is to limit the Current through the Basic meter then the Current dount exceeds tull Saale deflection Current
- > To Measure the potential difference blotwo points in a DC with proper polarity will

V=Im(Rs+Rm)

RS+Rm = V Fm

Rs= Tm-Rm

Where Im= Ifso = tullscale deflection of the Current

Rep internal resustance of a coul

Rs = Jettes resistance con Multiplier resistance (or) Current limiting resistance

V= full range Voltage of the instrument

Multirange Voltmeter . to Measure the pulsarial delite etailed on the with tropy Ation Mary Barba The DC voltmeter is converted into multirange voltmeter by using number of multipliers and a selector switch as shown in fig. let R, RD, R3 are multipliers that gives voltage ranges V6 42 43 10) The Multiposition switch is used to select the multiplier for required Voltage range for 11>12>13 then the multipliers R1>R2>R3 and the multiplier resistors are given by VI= Im(Ri+Rm) reductive to have it is a Regulation . " " " " " " " (hill of multiplier to measure Similarly R2 = V2 - Rm R3: 19 - Pm 11

These Voltmefor requires high precision values of multiple resistance, which increases the cost

