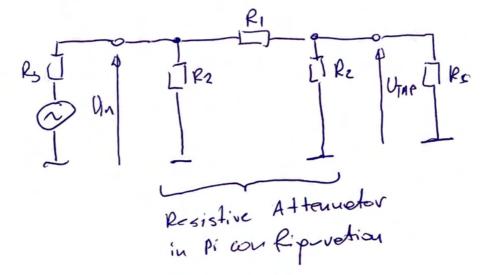
## Principles of Operation

RSmenoune and = Ksnenoune ch1 = Rs = 500 R1a + R16 + R1c = R1

Simplified circuit.



Av - voltage attemption

Av = Unap

Viap

Adb - attenuation expressed in dB

How assume voltage attenuation Av = 100 then AoIB = 20 log (0,01) = 20 log 10-2 = 20. (-2) = -40115

Using formules devived in [1] me can calculete vesistou velues:

$$R_{2} = \left[ \frac{1 + A_{V}}{1 - A_{V}} \right] \cdot R_{S} = \frac{1 + O_{1}O_{1}}{1 - O_{1}O_{1}} \cdot 50 = \frac{1 \cdot O_{1}}{O_{1}PP} \cdot 50 = \frac{51 \text{ ND}}{O_{1}PP}$$

$$R_{2} = \frac{(1 - A_{V}^{2})}{2 \cdot A_{V}} \cdot R_{S} = \frac{(1 - O_{1}O_{1}^{2})}{2 \cdot O_{1}O_{1}} \cdot 50 = \frac{O_{1}PPPP}{O_{1}O_{2}} \cdot 50 = 2500 \text{ ND}$$

RI can be expressed in som of student roststor velues. Good approximation is: \$820 +820 +820 Lov 820 +820 R and 1 kpotentioneder,