

LOS TOMOS & STEPLING & ACTIVER IN SECURIOR N 4 current, Resistance, and DC circuits ~ 10) in senes: -E2 + Ir2 + Ir, - E, + IR = 0 -1.5 + I (r, +r2+R) -1.5 = 0 $I = 3/r_1+r_2+R = 3/2+2+50 = 3/54 = 55.50 \text{ mA}$ in parallel: $\frac{V_{r-1.5} + V_{r+1.5} + V_{r}}{2} = 0$ 25 Vr - 37.5 + 25 Vr - 37.5 + Vr = 0 51 Vr = 75 Vr = 1.47 volts I = 1.5-1.47/2011 | I 2=1.5-1.47/2 TO 0000 = 15 m AV DAY VOOGN JED 15 MAY I = II + I2 = 15 mA + 15 mA = 30 mA senal case: 1 h 11 115 11 PTOT = I2r, + I2r, + I2R $= (0.056A)^{2} \times 2 + (0.056A)^{2} \times 2 + (0.056A)^{2} \times 50$ PTOT = 0.17 W = [170 mW] Parallel case: $PTOT = I_1^2 r_1 + I_2^2 r_2 + I^2 R$ = (0.015A)2x2+ (0.015A)2x2+ (0.030A)2x50 PTOT = 0.0459 W = 45.9 mW 4 ms - 2 ms = 2 ms/1 2a) 40 mv - - 75 my 40 mv + 75 mv = 115 mV a was lattered as a consider