10: 20208014

Brookdanics Sheet 1

Problem 1: Ms = Ps (So_Si) Mant - - 2x10-8 (155-10) x10-3-2.72x10-9 mH/sc. cm2 Ra-2x10-8 cms Cm , mM Pr - 2x10-6 cm/s R1 = 4x10-6 cm15 DAB+- Plat Xd - 2X10-8 X 10-8 - 2X10-16 cm2/sec d=100 A Mr=-2x10-16 (5-136) x 10-3= 2.62 X10-7 mH/Seccm2 Gruen 5 T= 20+273-293 Ac-2 x10-8 cm/s Dr- Pxxd = 2x10-6x10-8 = 2x10-14 Cm2/sec Pr= 2x10 -6 cms Ma = 4x10-6 (112-78)x10-3=-1.36x10-7mM/sec.cm2 R1-4x106cm/s Du = 4x10-6 x10-8- 4x10-14 cm2/5ccm Problem 5: Vm - RE in Para Mario + Pr [kt] + Par [at];
F Pro [Not] + Pro [kt]; Par [d] = 8.31x293 Ln (12x10-8x145 x 10-3) + (2x 10-6x4x10-3) + (4x10-6x4x10-3) 9.648X104 (2x6 5x1216-3), (2x10-6x155x10-3), (4x10-6x120x10-3)

=0.025 ln (2.64x10-8) = 0.085 V