Z1:50+125 A M. Wasyim Abdillah P. 20 = 50 110 1191095 The Complete Smith Chart TT-43-11 Za Itioss Black Magic Design ZIN = 1+ 5 8,5 d = 40 cm = 0,7 m V = 00 Y 9:170 MM2=1,5 X 00 8 Rg = 50 12 20 = 1 WANTELEXCITES TOWARD LOAD CO RADIALLY SCALED PARAMETERS <-- TOWARD GENERATOR 1.2 1.3 1.4 1.6 1.8 2 0.4 0.6 0.8 1 1.5 2 0.1 0.2 2.5 3 4 5 0.5 0.4 0.3 0.2 0.1 00 CENTER O. SWR = 1,65 b. |T| = 0,94 - 94 %

C. Zin = Zo. 
$$\frac{31 + 520 + an (Bd)}{20 + 521 + an (Bd)}$$

$$\beta = \frac{2\pi}{2} ; \lambda = \frac{c}{5\sqrt{\epsilon_c}} \cdot \frac{3\times\omega^0}{1.5\times\omega^0} = 2$$

= 
$$\frac{2}{20}$$
.  $\frac{2L+5}{20}$  tan  $\left(\frac{2L}{2},0,4\right)$ 

$$= 50.\frac{(50+525)+550.3,1}{50+5(50+525).3,1}$$

$$= \frac{2500 + 59000}{-27,5 + 5155} = 53,52 - 525,62$$

$$5. P = V.I = \frac{V^2}{R}$$

$$P_{\text{max}} = \frac{V_5^2}{R_c} = \frac{10^2}{50} = \frac{100}{50} = 2 \text{ W}$$