

Fig. 8e. Admittance overlay.

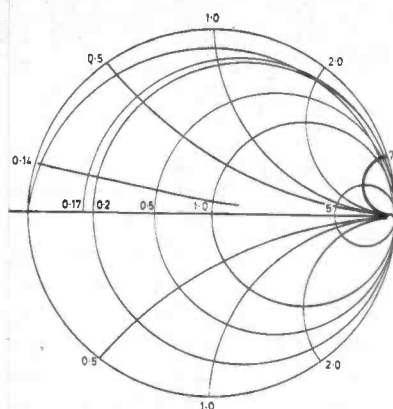


Fig. 8f. Calculating the value of the series capacitor, C1.

line of constant resistance 5 at 7.9, as near as can be judged. The series capacitor runs anticlockwise along this line of constant resistance until it crosses the line of pure resistance, so it is of length 7.9 ohms. The parallel capacitor has a length already determined of 0.49 mho, which is $1/0.49$ ohms = 2.04 ohms.

Allowing for the normalisation,

we find the absolute values of the inductance is 15.6 ohms, the parallel capacitor is 20.4 ohms, and the series capacitor is 79 ohms. This compares with the calculated values in the book of 15.6, 20.3, and 78 ohms respectively. Not bad for a graph.

Next month we shall be going on to look at the use of the Smith chart for aerial matching.



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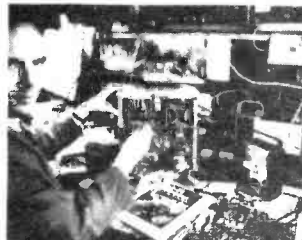
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