

Fig. 3—Nearfield amplitude and phase plot of Yagi antenna without reflector.

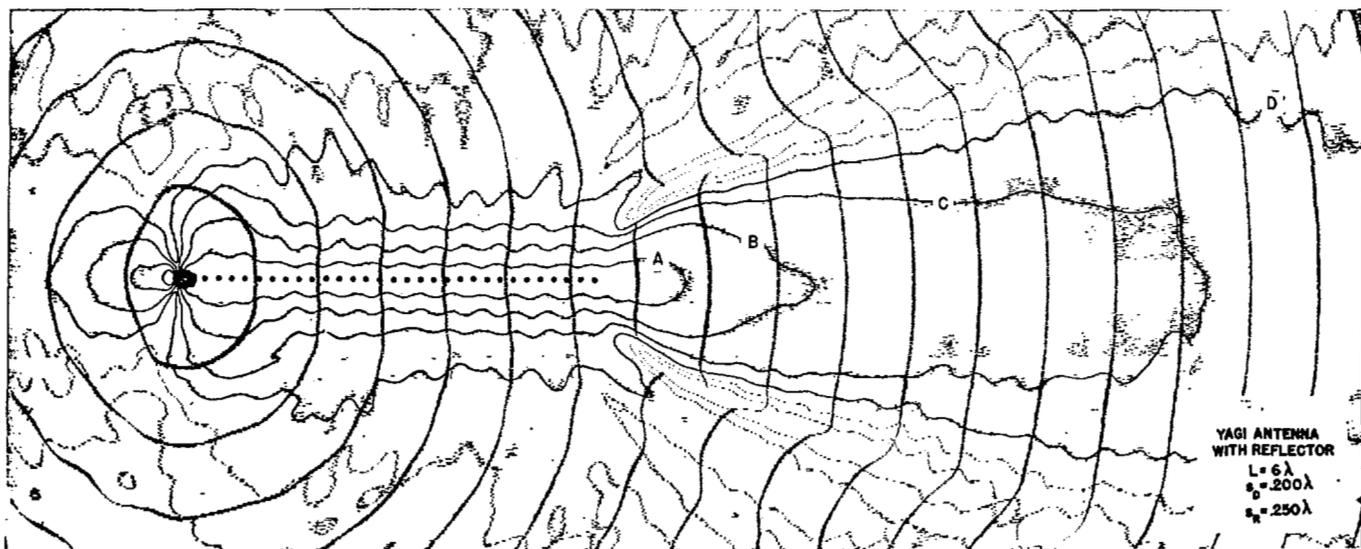


Fig. 4—Nearfield amplitude and phase plot of complete Yagi antenna.

- Y1 the audio oscillator (1000 cps) used with MOD.
- Y2 the frequency-stabilized source operating at 9084 Mcps.
- MOD the ferrite-type modulator for amplitude modulation of the signal source.
- AT1 the attenuator that measures the antenna gain. [The power input to the antenna was attenuated until the field strength in the farfield was the same as obtained from the reference monopole (the feeder).]
- ST1 the standing-wave indicator.
- TR1 the impedance transformer.
- MT1 the mode transducer from waveguide to coaxial line.
- ANI the receiving antenna in the farfield. (The detector monitors the signal strength.)

Fig. 5 also shows the method used for measuring the phase velocity along the row of directors. A probe was

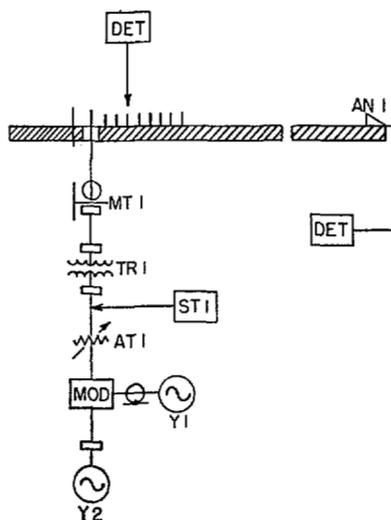


Fig. 5—Block diagram of experimental setup.









