

② REFLECTION



REFRACTION 'BENDING'

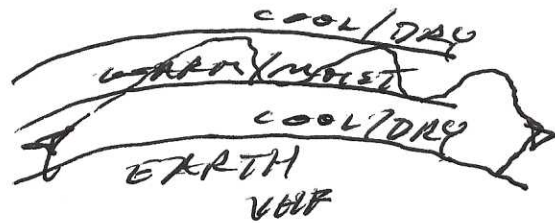


DIFFRACTION



③ RADIO LOS = LOS + 15%

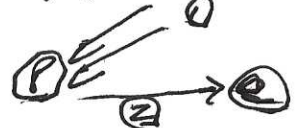
⑦ DUCTING:



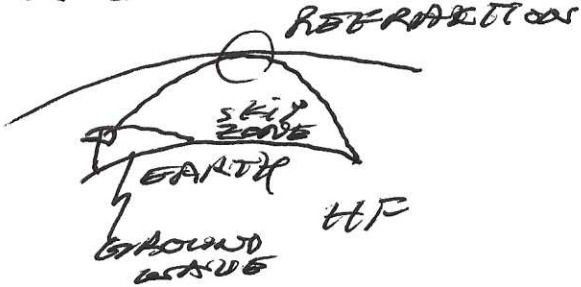
⑧

NORMAL ATOM

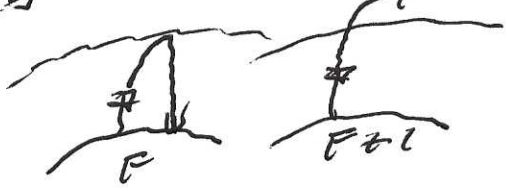
EXCITED ATOM



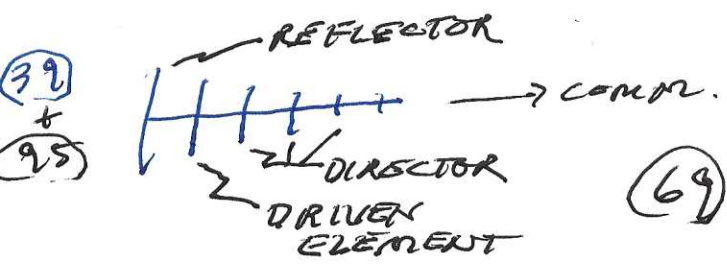
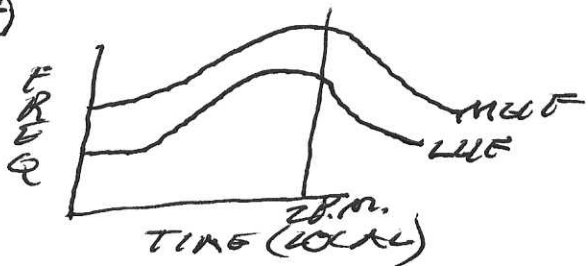
⑩ 11Z



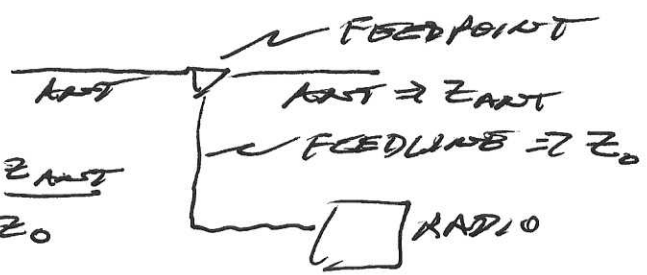
⑬ CRITICAL FREQ



⑭



⑯



⑰ GAIN/LOSS

$$\Delta B = 10 \log \frac{P_{out}}{P_{in}}$$

$$SWR = \frac{Z_{ANT}}{Z_0}$$

$$\Delta B = 20 \log \frac{E_{out}}{E_{in}}$$

⑱

$$\frac{246}{146 \text{ MHz}} = \text{length ft}$$

$$\frac{246}{146} = 1.7 \text{ ft} = 1 \text{ Pin}$$