

-Impedance varies along a mismatched transmission line

-The impedance equations involve basic high school trig but Smith Chart is a "bent" chart that turns that math into simple straight lines and circles

-Impedances for a given VSWR transmission line stay on its VSWR circle

-Each full travel around a VSWR circle corresponds to 1/2 wavelength of travel down the transmission line

-So impedances repeat every 1/2 wavelength of travel

-The higher the VSWR the wilder the impedance variations

-What is the impedance seen where I park my transmitter on the line? It depends on where I put it..

