

ECE 8670: Microwave Thry & Tech I

Modern analysis and design techniques for use with microwave and millimeter-wave frequency range. Topics a review of Maxwell's equation; transmission lines and waveguides; planar guiding structures including stripline, microstrip, slotline and coplanar waveguides; scattering parameters and microwave network theory with applications to transmission line and waveguide junctions and obstacles; Impedance matching and tuning; examples of microwave passive devices including power dividers, couplers and hybrids. Prerequisite: Undergraduate Electromagnetic Theory

Credits: 3.0

Prerequisites:

ECE 3690 :D-