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Impedance Measurement of Small Antennas Over a Ground Plane Without Direct Cable Attachment		Download	Notify me via email or RSS Browse Collections Disciplines Authors
Document Type Open Access Thesis Degree Program Electrical & Computer Engineering Degree Type Master of Science in Electrical and Computer Engineering (M.S.E.C.E.) Year Degree Awarded 2014 Month Degree Awarded September Keywords Antenna impedance measurement, small antennas Abstract An indirect impedance measurement approach that does not require direct cable attachment or large space using a two-port network is presented. Using a straight wire monopole as an interrogating antenna and measured impedances of three calibration standards, the input impedance of a small spherical helix dipole over a ground plane is retrieved. It is found that accurate result is obtained around the dipole resonance frequency. The accuracy and sources of error are discussed. Recommended Citation Yang, Yutong, "Impedance Measurement of Small Antennas Over a Ground Plane Without Direct Cable Attachment" (2014). <i>Masters Theses May 2014-current</i> .			Author Corner Author FAQ Submit Thesis



