



## Near-Field Antenna Measurements on a Cylindrical Surface: A Source Scattering-Matrix Formulation (Classic Reprint) (Paperback)

By Arthur D Yaghjian

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Near-Field Antenna Measurements on a Cylindrical Surface: A Source Scattering-Matrix Formulation This work addresses the problem of measuring the radiating fields of a test antenna by scanning with a probe antenna on an imaginary cylinder surrounding the test antenna. The problem of measuring the receiving characteristics of the test antenna is very closely related, but for the sake of brevity it will be left as an exercise for the reader. Of course, most antennas are reciprocal so once the radiating or transmitting characteristics are determined the receiving properties follow immediately from the reciprocity relationship (15a). As a first step in formulating the cylindrical scanning technique, the EM fields outside an arbitrary test antenna radiating into free space will be expanded in a complete set of cylindrical waves (eigenfunctions or modes). The test antenna and its coordinate system fixed to the test antenna are shown schematically in figure 1. In cylindrical coordinates the point P is designated by  $(\rho, \phi, z)$ , in spherical coordinates by  $(r, \theta, \phi)$ . It has been shown [4] that in cylindrical coordinates the  $(e, H)$  fields in free space (in...



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