Abstracts

A Dyadic Green's Function for the Plano-Concave Quasi-Optical Resonator

P.L. Heron, F.K. Schwering, G.P. Monahan, J.W. Mink and M.B. Steer. "A Dyadic Green's Function for the Plano-Concave Quasi-Optical Resonator." 1993 Microwave and Guided Wave Letters 3.8 (Aug. 1993 [MGWL]): 256-258.

An approximate dyadic Green's function is derived for a quasi-optical resonator. The Green's function is comprised of resonant and nonresonant terms corresponding to coupling to the modal and nonmodal resonator fields. The effect of losses due to diffraction, finite reflector conductivity and radiation are included. Experimental one- and two-port measurement of antennas in an X-band cavity compare favorably with theoretical predictions.

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