Abstracts

Mutual Coupling Between Two Small Circular Apertures in a Conducting Screen (Short Papers)

With the use of the reaction integral and two-dimensional Fourier transform, an analytical expression for mutual coupling between two small circular apertures in a conducting screen, excited by normally incident plane electromagnetic wave, is obtained. Numerical examples for two different polarizations of the plane wave are investigated. The expression for the mutual admittance gives a correct value of the self admittance of a small aperture when the distance between the holes is equal to zero.

❏ Return to main document.

Click on title for a complete paper.