Abstracts

Interaction of the Near-Zone Fields of a Slot on a Conducting Sphere with a Spherical Model of Man (Corrections)

S.-G. Zhu and K.M. Chen. "Interaction of the Near-Zone Fields of a Slot on a Conducting Sphere with a Spherical Model of Man (Corrections)." 1985 Transactions on Microwave Theory and Techniques 33.4 (Apr. 1985 [T-MTT]): 350-351.

In the above the conducting paper, we have assumed that on the surface of sphere, the electric field exists only on the slot aperture and zero field elsewhere. This assumption is unrealistic. For a realistic conducting sphere, the slot field can excite a normal component of the electric field on the spherical surface, implying the existence of induced surface charge. With the modified assumption, of the above paper should be modified as follows.

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