

Characteristics of an omnidirectional antenna using circular array of slot on cylinder for TV broadcasting system

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Abstract

This paper presents characteristics of an omnidirectional antenna using circular array of slot on cylinder. This antenna is proposed to be the transmitting antenna for TV broadcasting system. The structure of the antenna is simple i.e., slot array antenna cut on the conducting cylindrical surface. The pattern appears to be the omnidirectional pattern. The gain can be enhanced by increasing the ring of the array.