

研究简报

用复射线理论研究波束经天线罩的传输

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摘要

本文研究了三维复射线理论, 给出了三维空间中一般的复射线追踪法, 对旋转抛物形单层介质天线罩的波束传输特性进行了计算. 根据计算出的数据绘制了远区和近区波束传输特性方向图, 并与无介质天线罩时波束方向图进行了对比, 从而明确了天线罩对波束传输的影响.

关键词 [三维复射线理论](#) [复射线追踪](#) [天线罩](#) [波束传输](#)

分类号

STUDY OF THE BEAM TRANSMISSION PROPERTIES OF RADOME USING COMPLEX RAY THEORY

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Abstract

The complex ray theory for three-dimensional space is researched, from which the method of complex ray tracing for arbitrary configuration in three-dimensional space is derived, and the beam transmission properties of a rotating parabolic radome are solved. According to the data calculated, the patterns of the beam transmitted through a rotating parabolic radome are plotted. Then they are compared with the patterns without radome and the effects of radome on the beam transmission is depicted.

Key words [Complex ray theory for three-dimensional space](#) [Complex ray tracing](#) [Radome](#) [Beam transmission](#)

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