



航空学报 » 1991, Vol. 12 » Issue (11) :654-657 DOI:

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混合技术解表面阻抗加载劈柱组合物体散射

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THEI HYBRID METHOD FOR SCATTERING OF OBJECT COMPOSED OF CYLINDER AND WEDGES WITH SURFACE IMPEDANCE LOADING

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摘要

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摘要 <正>近年来,随着计算技术的发展,人们对于金属外形散射体电磁散射的计算已经取得了

关键词: 表面阻抗 电磁散射 混合技术

Abstract: A hybrid method with the GTO, PO and MM is used to analyze the scattering of an object composed of cylinder and wedges with surface impedance loading. The solution of current distribution on the perfect conductive surface of the object is discussed by using high frequency method and the equivalent current distribution on the impedance loading surface is also discussed by using MM. According to current distributions, the scattering field is obtained. Compared with MM, the hybrid method has the advantages of saving memories of computer and faster speed for computation. The numerical calculation shows that the results of both methods have good agreements.

Keywords: hybrid method composed scattering surface impedance loading

Received 1990-01-23; published 1991-11-25

引用本文:

任济时; 俞卞章. 混合技术解表面阻抗加载劈柱组合物体散射[J]. 航空学报, 1991, 12(11): 654-657.

Ren Jishi; Yu Bianzhang. THEI HYBRID METHOD FOR SCATTERING OF OBJECT COMPOSED OF CYLINDER AND WEDGES WITH SURFACE IMPEDANCE LOADING[J]. Acta Aeronautica et Astronautica Sinica, 1991, 12(11): 654-657.

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