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低雷达散射目标的RCS分析与求解

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RCS COMPUTATION AND ANALYSIS OF LOW SCATTERING RADAR TARGETS

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摘要 利用C－R样条对目标进行建模和求解爬行波短程线，通过GRECO与爬行波混合法求解低散射目标后向RCS。获得令人满意的结果。

关键词： 电波散射 雷达散射截面 爬行波

Abstract： Graphical Electromagnetic Computing (GRECO) is recognized as the most valuable method of the RCS computation for the high frequency region in real time. To the low RCS target, the effect of creeping wave is remarkable and larger than that of facets and wedges in some cases. Based on the C R spline fitting theory, the problem of computing geodesic has been solved and a practical computing example of Low RCS target fully proved the validity of the method in this paper by using the hybrid method of GRECO and Creeping Wave Theory. Some canonical and practical examples are given. Excellent agreement with the measured data indicates that the method has practical engineering value.

Keywords： electromagnet ic wave sca ttering radar cr oss sect ion cr eeping wave

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