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用射线法研究进气道的电磁散射特性

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RESEARCH OF EM SCATTERING OF JET ENGINE INTAKES USING SHOOTING AND BOUNCING RAYS APPROACH

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摘要 发动机进气道是飞行器的一个强散射源。本文采用射线跟踪法研究了任意截面形状，不同管道的电磁散射特性。用这种方法计算了一个角反射器雷达截面和一个实际使用的进气道的雷达散射截面，测量结果和计算结果的一致性表明，该方法是有效的。

关键词： 飞行器 进气道 雷达截面 电磁波散射

Abstract： Jet engine intake is an important scatter source of vehicles. A research of EM scattering characteristic for intakes of different sections and shapes using shooting and bouncing rays (SBR) approach is presented. A radar cross section of dihedral corner reflector and a practical intake are calculated by using this method. Good agreement between computation results and measured data shows that SBR is an effective method.

Keywords： flight vehicles air intakes radar cross sections electron magnetic scattering

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