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流面坐标系特征线法对超音速三维机翼及细腰体绕流的计算

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CALCULATION OF SUPERSONIC FLOWS AROUND A THREE-DIMENSIONAL WING AND A WAISTED BODY WITH CHARACTERISTIC METHOD IN STREAM SURFACE COORDINATES

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摘要

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摘要 本文根据文献(1)求得的流面坐标系中准确的沿两个流面(ξ^3 和 $\xi^2=c^2$)四条双特征线法对圆-椭圆三角翼作了计算,并与文献(2~4)的结果作了比较。以类似方法对超音速绕细腰体的流动也作了计算并与文献(6)作了比较。

关键词:

Abstract: According to the exact characteristic surface equation of three dimensions and the physical relations along bicharacteristics in stream surface coordinates of Ref. 1, the pressure distributions of circular-elliptic delta wing and waisted body are calculated with "real" characteristic method. The results are compared with those of Refereces 2,3,4 and 6.

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