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跨音速翼型气动优化设计方法

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AERODYNAMIC OPTIMIZATION DESIGN METHOD OF TRANSONIC AIRFOIL

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摘要

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摘要 提出了一种有效的跨音速翼型气动优化设计方法。翼型的流场解由欧拉方程的数值解提供。带约束条件的优化计算分别采用了直接法和间接法两种优化算法。算例结果表明, 本方法提供了一种跨音速翼型改型设计 & 新翼型设计的有效工具。

关键词: 气动优化设计 跨音速翼型 欧拉方程

Abstract: An effective aerodynamic optimization design method of transonic airfoil is given. The numerical solution of Euler equations is provided as flowsolver. Both direct and indirect optimization methods are used for the optimization with constraints. Numerical results show that the method provides an effective tool for refining and designing a transonic airfoil.

Keywords: aerodynamic optimization design transonic airfoil Euler equation

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