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论文

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### 多区域多重网格法在直升机粒子分离器中的应用

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### APPLICATION OF MULTIBLOCK/MULTIGRID METHOD TO INLET PARTICLE SEPARATOR IN HELICOPTER

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摘要

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**摘要** 首次将多区域多重网格法用在一般曲线坐标系下交错网格布局的SIMPLEC算法中,在直升机粒子分离器这类独特结构中的成功应用,突破多重网格方法在多连通域中运用的局限性,使复杂问题变得简单。结果表明,它不仅能加快流场求解的收敛速度,而且还能提高计算精度。

**关键词:** 多区域多重网格 粒子分离器 曲线坐标

**Abstract:** A multiblock/multigrid method is developed in SIMPLEC algorithm with a layout of staggered grid on generalized curvilinear coordinates. Application to the peculiar construction of inlet particle separator in helicopter breaks through the limit of multigrid methods applying to multiply connected regions and makes complex problem simple. Results show that this multiblock/multigrid method can improve not only convergence, but also accuracy.

**Keywords:** multiblock/ multigr id inlet part icle separat or curvilinear coor dinat e

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