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论文

抛物型方程网格生成方法及其应用

张耀科,蔡宗绪

摘要：

抛物型方程网格生成方法及其应用张耀科，蔡宗绪（中国科学院计算中心）ＡＧＲＩＤＧＥＮＥＲＡＴＩＯＮＭＥＴＨＯＤＵＳＩＮＧＰＡＲＡＢＯＬＩＣＤＩＦＦＥＲＥＮＴＩＡＬＥＱＵＡＴＩＯＮＳＡＮＤＩＴＳＡＰＰＬＩＣＡＴＩＯＮ¥ＺｈａｎｇＹａｏ－ｋｅ；ＣａｔＺｏｎ…

关键词：

A GRID GENERATION METHOD USING PARABOLIC DIFFERENTIAL EQUATIONS AND ITS APPLICATION

Zhang Yao-ke; Cat Zong-xu (Computing Center, Academia Sinica)

Abstract:

Abstract This paper discusses essential ideas and computational methods for grid generation using parabolic differential equations. Based on [3], this paper makes some important improvements, so that the generated grid lines may be nearly-orthogonal on the two opposite solid surface boundaries. Many numerical tests by our program show that the speed of grid generation is fast, and the quality of the grid is good and suitable for computing interior and external flow fields passing various complex solid surfaces

Keywords:

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