### 固壁温度对壁湍流相干结构的影响

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收稿日期 修回日期 网络版发布日期 接受日期

关键词 相干结构 条件采样 猝发 归组

分类号

# THE EFFECT OF WALL TEMPERATURE ON THE COHERENT STRUCTURE IN WALL TURBULENCE

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#### Abstract

In this paper, two conditional sampling techniques, VITA and mu-level algorithms were used to investigate the wall temperature influence on turbulence coherent structure in heated wall. ``Grouped" method proposed by Tiederman et al. was improved, and the advanced ``Grouped" method was used with VITA and mu-level technique in analizing the effects caused bywall heating on average bursting period. Experiments indicate that the U rms and detected results of conditional sampling method increase, but aver...

Key words coherent structure conditional sampling burst grouped

DOI:

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