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钝体火焰稳定器冷态回流区流场的数值计算研究

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CALCULATION OF RECIRCULATING FLOW BEHIND FLAME-HOLDERS

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摘要

一、计算方法 火焰稳定器是航空喷气发动机加力燃烧室的主要部件,钝体稳定器的回流区流场计算是研究加力燃烧室的重要手段,本文就二元锲形、V形和非常规截头式等三种火焰稳定器的回流区流场进行了计算研究,计算流场为二元等温定常流,紊流采用k—ε双方程模型描述。

关键词：

Abstract：

Adoptability of standard k-ε turbulence model for numerical calculation of recirculating flow is discussed. Many computations of recir-culating flows behind bluff-bodies used as flame-holders in afterburner of aeroengine have been completed. Blocking-off method to treat the incline walls of the flame-holder gives good results. In isothermal recirculating flows the flame-holder wall is assumed to be isolated. Therefore, it is possible to remove the inactive zone from the calculation domain in programming to save computer time. The computation for a V-shaped flame-holder exhibits an interesting phenomenon that the recircu-lation zone extends to the cavity of the flame-holder.

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