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一种能同时测量喷嘴下游气流流强的两相探针的研制

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STUDY OF THE TWO PHASE PROBE TO MEASURE THE GAS AND LIQUID MASS FLUX ON THE INJECTOR DOWNSTREAM

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摘要

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摘要 针对液体火箭发动机喷注器下游燃料和氧化剂两相流场分布的实验研究, 研制了能同时对其流强及混合比进行测量的两相探针, 并对其进行了标定。利用两相探针对不同反压下同轴式喷嘴下游的流强和混合比分布所进行的试验研究, 证明探针的设计是成功的

关键词: 喷嘴 探针 两相流动

Abstract: The two phase probe able to measure the liquid mass flux and gas/liquid mixture ratio distribution at the same time was studied by experimental researches on the two phase flow field of the coaxial injector of a liquid rocket engine. The experimental calibration and theoretical amendment of this probe were also studied. The design of this probe has been proved successful by measurement of the mass flux and mixture ratio distribution.

Keywords: injector probe two phase flow

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