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Combustion efficiency test method in scramjet engine Combustion efficiency test method in scramjet engine

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中文摘要:

A scramjet engine combustion efficiency measure system was designed. The combustion efficiency was measured by chromatography method, and the results of chromatography method were compared with those of temperature method. The results indicate that the combustion efficiency measured by chromatography method was 80.7%, lower than the combustion efficiency of 84.5% measured by temperature method; the combustion efficiency could be measured more precisely by chromatogram method than by temperature method. The combustion efficiency measure system based on chromatogram method can work well, and thus can be used to measure the combustion efficiency of scramjet engine.

英文摘要:

A scramjet engine combustion efficiency measure system was designed. The combustion efficiency was measured by chromatography method, and the results of chromatography method were compared with those of temperature method. The results indicate that the combustion efficiency measured by chromatography method was 80.7%, lower than the combustion efficiency of 84.5% measured by temperature method; the combustion efficiency could be measured more precisely by chromatogram method than by temperature method. The combustion efficiency measure system based on chromatogram method can work well, and thus can be used to measure the combustion efficiency of scramjet engine.

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