



航空学报 » 1992, Vol. 13 » Issue (8) : 412-417 DOI:

论文

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

[<<](#) [<](#) [前一页](#) | [后一页](#) [>](#) [>>](#)

甲烷控制碳势的研究

吴锁春¹, 冯建勋²

1. 南昌航空工业学院材料系 南昌 330034; 2. 石家庄军械工程学院金工教研室 石家庄 050003

STUDY ON METHANE-CONTROLLED CARBON-POTENTIAL

Wu Suo-chun¹, Feng Jian-xun²

1. Department of Material Science of Nanchang Institute of Aeronautical Technology. Nanchang, 330034; 2. Shijiazhuang Engineering Institute of Army Instrument, Shijiazhuang, 050003

摘要

参考文献

相关文章

Download: [PDF \(343KB\)](#) [HTML OKB](#) Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 从炉气的非平衡角度,研究了常用渗剂的热分解特性,炉气各组分与碳势间相互关系等。试验表明:碳势和甲烷含量间有密切的线性关系,甲烷作为控制参数是可行的,而且乙酸乙酯最好采用甲烷参数控制。当以甲醇和乙酸乙酯为渗剂,甲烷参数自动控制时,碳势的控制精度及重现性均可达到较高水平,其碳势控制精度小于 $\pm 0.03\%$ 。

关键词: 碳势控制 热分解 甲烷

Abstract: The thermal decomposition characteristics of common carburants and the dependence of the carbon-potential on the furnace atmosphere constituents from an unbalanced angle of furnace atmosphere have been studied. The test results show an existence of a close linear relation between the methane contents and the carbon-potential and the feasibility to use methane as a control parameter. Moreover, it is recommendable to use the methane parameter to control ethyl acetate. When methanol and ethyl acetate are used to be carburants and methane parameter is controlled automatically, the carbon-potential control precision and its repeatability are able to reach a higher level, where the precision $\leq \pm 0.03\%$. A new point concerning the reaction during methane-used carburization has been brought in on the basis of dynamic tests and their analysis.

Keywords: carbon-potential control thermal decomposition methane

Received 1990-04-17; published 1992-08-25

引用本文:

吴锁春;冯建勋. 甲烷控制碳势的研究[J]. 航空学报, 1992, 13(8): 412-417.

Wu Suo-chun;Feng Jian-xun. STUDY ON METHANE-CONTROLLED CARBON-POTENTIAL[J]. Acta Aeronautica et Astronautica Sinica, 1992, 13(8): 412-417.

Service

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [Email Alert](#)
- ▶ [RSS](#)

作者相关文章

- ▶ [吴锁春](#)
- ▶ [冯建勋](#)