



航空学报 » 2002, Vol. 23 » Issue (6) :587-590 DOI:

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利用放射性同位素 γ 射线测量飞机燃油密度的方法研究

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RESEARCH ON THE MEASUREMENT OF AIRCRAFT FUEL DENSITY WITH RADIOACTIVE ISOTOPE GAMMA RAYS

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摘要

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摘要 介绍了应用放射性同位素 γ 射线测量飞机燃油密度的机理,并利用自行设计的实验室飞机燃油密度测量系统验证了测量机理的可行性。测量结果表明,该方法能够达到较高的密度测量精度,具有广阔的应用前景。

关键词: 放射性同位素 γ 射线 飞机燃油 密度测量

Abstract: The real time measurement of the aircraft fuel density is crucial in the aircraft Fuel Quantity Indication System (FQIS). This paper introduced the principle of using the radioactive isotope gamma rays to measure the aircraft fuel density. The results of density measuring experiments using in LAB measuring system have proved that this method is not only feasible, but also precise enough to be applied widely to real time aircraft fuel density measurement.

Keywords: radioactive isotope gamma rays aircraft fuel density measurement

Received 2001-11-27; published 2002-12-25

引用本文:

李楠;吕俊芳. 利用放射性同位素 γ 射线测量飞机燃油密度的方法研究[J]. 航空学报, 2002, 23(6): 587-590.

LI Nan; LU Jun-fang. RESEARCH ON THE MEASUREMENT OF AIRCRAFT FUEL DENSITY WITH RADIOACTIVE ISOTOPE GAMMA RAYS[J]. Acta Aeronautica et Astronautica Sinica, 2002, 23(6): 587-590.

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