航空学报
ACTA AERONAUTICA ET ASTRONAUTICA SINICA
ISSN 1000-6893
CN 11-1929/V

航空学报 » 1985, Vol. 6 » Issue (2) :180-187 DOI:

用新元件的磁敏固态传感器

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MAGNET-SENSITIVE SOLID-STATE TRANSDUCERS WITH NEW ELEMENTS

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摘要 | 参考文献 | 相关文章

摘要 本文在文献〔1〕的基础上采用国产新型磁敏元件——磁敏二极管互补对和磁敏三极管,做成四种新的磁敏固态传感器:（1）单磁敏三极管传感器;（2）磁敏二极管互补对传感器;（3）磁敏二极管与磁敏三极管组合传感器;（4）双磁敏二极管对的桥式传感器。文中示出四种传感器的实用电路图。同时,对四种性能的传感器都进行了性能测试和分析比较。这四种传感器在多用途、通用性和低速性能几方面都优于文献〔4～7〕中介绍的传感器。

关键词：

Abstract： According to Ref. [1], four kinds of new magnet-sensitive solid-state transducers have been made with new elements （magnetic diode couple and magnetic transistor）. They are （1） single magnetic transistor transducer, （2） magnetic diode couple transducer, （3） magnetic diode and magnetic transistor combined transducer and （4） bridge circuit of double magnetic diode couple transducer. Their practical circuits are described in this paper. Their performances are determined experimentally and compared in the form of experimental curves and empirical formulas. These four transducers are superior to the transducers given in Ref. [4-7] in multifunction and universality, especially in the ability to measure very low speed.

Keywords：