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STUDY ON THE ACOUSTIC DETECTION METHOD OF THE ELECTRICAL BREAKDOWN OF AEROSPACE MECHATRONICS MODULE

Abstract

A study of acoustic positioning technology of the electrical breakdown of sealing electromechanical components has been performed. According to the size of the sealing electromechanical components and identification accuracy of the electrical breakdown position that required, the parameters design of sound source positioning device and the research of positioning mechanism were carried out. At the same time, based on the delay estimation algorithm, the positioning error analysis of electrical breakdown parts has been performed, and by the electrical breakdown testing, the sound detection method of sealing electromechanical components was verified, the non-contact measurement of electrical breakdown of the sealing electromechanical components was realized.