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大型铝电解槽槽壳位移研究

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摘要: 为了测定铝电解槽槽壳位移随时间的变化规律和为计算槽壳内壁的受力大小 提供位移向量, 用自行研制的位移传感器和机械式位移计对某厂大型铝电解槽进行现场测试, 采集了大量实测数据。由所得的位移特征曲线可知, 槽壳大面中部最大位移为18.5 mm, 小面中部最大位移为12.0 mm。

关键字: 铝电解槽 位移传感器 机械式位移计 法向位移

DISPLACEMENT STUDY ON THE SHELL OF AN ALUMINIUM ELECTROLYZER

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Abstract: In order to measure the change rule of the shell of an aluminium electrolyzer and provide the displacement vector for calculating the stress on inner shell, the displacement sensor and the mechanical displacement instrument have been made and have been gotten a lot of results. From the displacement curve formed by these results, it can be known that the largest displacement of the central part of big shell surface was 18.5 mm and that of small shell surface was 12.00 mm.

Key words: aluminium electrolyzer displacement sensor mechanical displacement instrument normal displacement

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