



航空学报 » 1987, Vol. 8 » Issue (10) :540-543 DOI:

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激光散光法测定有机玻璃构件的残余应力

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THE MEASUREMENT OF RESIDUAL STRESSES IN PLEXIGLASS MEMBER BY THE METHOD OF LASER SCATTERED-LIGHT PHOTOELASTICITY

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摘要

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摘要 一、前言 有机玻璃构件在成形过程中或装配时使得内部存在着内应力。在成形过程中由于冷却不均匀而引起的应力习惯上称为温度应力或残余应力。而装配时由于配合不适产生的应力叫装配应力。测定内应力大小对估计和分析构件的安全有着很重要的意义。目前已经有不少科技工作者用不同的方法来进行研

关键词:

Abstract: The paper presents a method for determining residual stresses in plexiglass member. It provides a possibility to measure stresses without destructing the member to be tested. The paper describes emphatically the application of this method to stress analysis of plexiglass member by quantitative analysis of stresses in a test piece and points out the way to proceed with measurement in site test.

Keywords:

Received 1986-08-18;

Service

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