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对焊接头几何形状参数统计分布及焊趾处 K_t 计算

胡兵, 薛景川, 杨玉恭

飞机结构强度研究所, 陕西灌县, 727100

STATISTICAL DISTRIBUTION OF BUTT WELDED JOINTS' GEOMETRY PARAMETERS AND CALCULATION OF K AT THE WELD TOE

Hu Bing, Xue Jingchuan, Yang Yugong

Aircraft Structure Strength Research Institute, Yao Country, Shanxi, 727100

摘要

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摘要 对焊接头主要外形尺寸进行了测量,经统计分析:焊趾角、焊缝宽、焊缝加厚高与接头错位符合正态分布,焊趾曲率半径符合对数正态分布,焊缝加厚高与接头错位亦符合威布尔分布。依此对焊接头焊趾处应力集中系数 K_t 进行了计算。

关键词: 焊接联接 统计分布 应力集中 系数

Abstract: The major shape measurements of butt welded joints are measured It is obtained by statistical analysis that the statistical distribution of weld toe angle, weld width, weld reinforcement and weld misalignment is nonnal and that of radius at the weld toe is logarithm nonnal. It is also found that the distribution of weld reinforcement and misalignment is Weibull. The stress concentration factor K_t at the weld toe is calculated.

Keywords: welded joints statistical distribution stress concentration coefficients

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