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八结点等参奇元断裂分析方法及其在机身壁板中的应用

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A FRACTURE ANALYSIS USING EIGHT-NODE-ISOPARAMETRIC SINGULAR ELEMENTS AND ITS APPLICATION IN FUSELAGE PANELS

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摘要

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摘要 为了发展一种结构断裂分析的有效工程方法,本文推导并利用八结点等参奇元结点位移表示的应力强度因子解。对机身加劲壁板进行了断裂分析,结果表明它能较好满足工程要求。

关键词:

Abstract: In order to develop an effective engineering method for fracture analysis of structures, a stress intensity factor solution represented only by the node displacements of a eight-node-isoparametric singular element has been derived and employed in this paper. A fracture analysis of stiffened fuselage panels, a kind of typical aircraft structures, has been carried out. The results show that the engineering purpose can be satisfactorily fulfilled.

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