

Experimental Evaluation Of Stress Concentration And Intensity Factors Useful Methods And Solutions To Experimentalists In Fracture Mechanics Mechanics Of Fracture

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Experimental Evaluation Of Stress Concentration

This paper describes an experimental study on determining the stress concentration factor (SCF) and its stochastic characteristics for a typical welded steel bridge T-joint. A full-scale segment model, which holds the same profile with a railway beam section of the suspension Tsing Ma Bridge (TMB) in geometric dimension and material property as well as in weld details, is fabricated and tested.

Experimental evaluation of stress concentration factor of ...

Experimental evaluation of stress concentration and intensity factors: Useful methods and solutions to Experimentalists in fracture mechanics (Mechanics of Fracture (7)) Softcover reprint of the original 1st ed. 1981 Edition

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Experimental evaluation of stress concentration and ...

The main objective of this paper is to find an experimental base for the value of the stress concentration ratio by manufacturing a model of a single stone column with rigid instrumented loading...

(PDF) Experimental evaluation of stress concentration ...

Ground improvement using stone column reinforcement is an effective treatment technique to increase the stiffness and reduce the total and differential settlement of the soft deposits. Even though stone column reinforcement is a well-established technique, detailed experimental study regarding the load-sharing characteristics and parameters influencing the stress concentration ratio (SCR ...

Experimental evaluation of stress concentration ratio of ...

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Experimental Evaluation of Stress Concentration and ...

Some studies have described the performance of chloride diffusion under sustained load. Wang et al. [] conducted that the increase of sustained compressive stress will not always hinder the diffusion of chloride ions. The experimental results show that the chloride diffusion coefficient increases when the sustained compressive stress is higher than 0.3 f_c (e.g., f_c = prism compressive ...

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The rounded edges prevent stress concentration and damage of the contact surfaces, whereas the circular shape allows rocking toward all plan directions. In contrast to conventional steel column bases, the proposed column base exhibits monotonic and cyclic moment-rotation behaviors that are easily described by analytical equations.

Experimental Evaluation of a Rocking Damage-Free Steel ...

Stress concentration, especially in the welded joints of these structures, is an important design consideration particularly for fatigue design. In the context of tubular and non-tubular joints, this paper provides a review of the experimental and numerical studies that have been carried out so far to determine the stress concentration factor (SCF).

A review of stress concentration factors in tubular and ...

polycarbonate (PC) to uniaxial elastic level loading, and perform experimental evaluation of the stress concentration factor by using strain gauge output taken from the aluminum specimen, and birefringence contours observed on the PC. • examine basic output numerical results from a linear elastic plane stress finite

Massachusetts Institute of Technology Department of ...

Fatigue crack initiates from corrosion pits in various metallic structures, leads to the decline of the fatigue life. In the present study, the effects of the width, depth, angle and spacing of primary and secondary pits on failure mechanism and stress concentration factor are investigated by the experimental and numerical analysis. The results show that depth-width ratio of corrosion pits is ...

Experimental and Numerical Investigation of Stress ...

The paper deals with the bending stress concentration evaluation of a marine diesel engine crankshaft. Experimental strain gauge tests were conducted on a full scale single crank to measure the ...

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Experimental Evaluation Of Stress Concentration And ...

There are experimental methods for measuring stress concentration factors including photoelastic stress analysis, thermoelastic stress analysis, brittle coatings or strain gauges. During the design phase, there are multiple approaches to estimating stress concentration factors. Several catalogs of stress concentration factors have been published.

Stress concentration - Wikipedia

stress concentration - Search Results Articles About stress concentration. Articles are sorted by RELEVANCE. Sort by Date.. 1 Point-Surface-Origin Macropitting Caused by Geometric Stress Concentration (January/February 2011). Point-surface-origin (PSO) macropitting occurs at sites of geometric stress concentration (GSC) such as discontinuities in the gear tooth profile caused by micropitting ...

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