

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

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stress concentration - Articles, News and Company results ...
Hart proposed a stress concentration factor K_{tc} to calculate the shear-out failure of GFRP laminations shown in Eqs. . . . (2) $K_{tc} = 1 + C K_{te-1}$ where C is a correlation factor for FRP bolted connection, it could be determined based on test results and the stress concentration of material with the same geometry.

Experimental evaluation of stress concentration ratio of ...
Experimental Investigation of Strain Concentration Evaluation Based on the Stress Redistribution Locus Method Nobuhiro ISOBE1; 2, Nobuchika KAWASAKI , Masanori ANDO2 and Masayuki SUKEKAWA3 1Hitachi, Ltd., 7-1-1 Oomika, Hitachi, Ibaraki 319-1292, Japan 2Japan Atomic Energy Agency (JAEA), 4002 Narita, Ooarai, Ibaraki 311-1393, Japan 3Hitachi-GE Nuclear Energy, Ltd., 3-1-1 Saiwai, Hitachi ...

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.

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Experimental evaluation of shear behavior of pultruded ...
5.1 Stress concentration factors Stress concentration factors have been obtained for several geometries of engineering significance. These are often tabulated in engineering handbooks (e.g., "[R. E.] Peter son's Stress Concentration Factors," 2nd. Ed., John Wiley, New York, 1997, edited by W. D. Pilkey).

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In this paper, a theoretical and experimental study toward extreme stress concentration-free designs of single-side-notched thin cylindrical shells is presented. The general stress concentration factors (SCFs) for single-side notches with arbitrary depths are obtained based on the theory of notch stresses, which are well validated by the refined finite element modeling.

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Massachusetts Institute of Technology Department of ...
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.

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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 stress concentration near the crank fillet.

A Theoretical and Experimental Study on Extreme Stress ...
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