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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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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 ...

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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 ...

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 plates such that the total load applied to the model footing, and the load applied to the stone column can be measured alone.

Experimental evaluation of stress concentration ratio 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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Abstract. 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 the critical factor that affects the dangerous area and stress concentration factor.

Experimental and Numerical Investigation of Stress ...

The current study examined stress concentration factors for non-90 ° (Y-type) joints. A total of 11 Y-joints were tested under axial tension, and the hot spot stresses were measured. The measured results were employed to evaluate the influence of design parameters on the stress concentrations.

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There are many methods used nowadays for the evaluation of the plasmatic concentration of PCOs. Among these, the most employed is based on derivatization of proteins using 2,4-dinitrophenylhydrazine (DNPH) (3, 5); DNPH reacts with PCO and leads to the formation of 2,4-dinitrophenylhydrazone (DNP), a stable compound that can be detected and ...