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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

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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

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to the model footing, and the load applied to the stone column can be measured alone.

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