

عنوان مقاله:

Investigation of responses of concrete-filled tubular piers of integral bridges under axial and lateral loading

محل انتشار:

سومین کنفرانس بین المللی دستاوردهای نوین پژوهشی در مهندسی عمران، معماری و مدیریت شهری (سال: 1395)

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خلاصه مقاله:

In this paper, an analysis of the structural response of concrete-filled tubular columns (CFT) when subjected to combined bending and compression is presented. The reference frame of the study is the usage of such members as piers of integral bridges. The main objective of the study is to evaluate both the resistance and the ductility of these structural elements when subjected to lateral displacements. These displacements, together with the corresponding axial forces, represent actions to which the integral bridges piers might be subjected to. For the sake of studying this response, a numerical model is used as a simulation tool over a hypothetical matrix of CFT with realistic proportions. A parametric study is undertaken to monitor the influence of the steel contribution- and the length-to-diameter ratios on the strength and ductility of the CFT

کلمات کلیدی:

CFT, Ductility, Integral bridges

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