

Application Procedure for Optimized Placement of Buckling Restrained Braces in Reinforced Concrete Building Structures

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Abstract : The optimal design procedure of buckling restrained braces (BRBs) in reinforced concrete (RC) building structures can provide the distribution of horizontal stiffness of BRBs at each story, which minimizes story drift response of the structure under the constraint of specified total stiffness of BRBs. In this paper, a simple rule is proposed to convert continuous horizontal stiffness of BRBs into sectional sizes of BRB which are available from standardized section list assuming realistic structural design stage.

Keywords : buckling restrained brace, building engineering, optimal damper placement, structural engineering

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