

Trial Design of the RC Rigid Frame Viaduct Applying the Revised Standard for Railway Concrete Structures

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Based on previous research, the formulas and values in the Design Standard and Commentary for Railway Structures (Concrete Structures) have been revised. In this report, we compare RC rigid frame viaduct designed based on the revised standard (published in 2023) with those designed based on the current standard (published in 2004). Consequently, this comparison resulted in more rational design, for example, in the reduction rebar ratios by revising the shear strength equation of RC members and the specification for stirrup ratio in a joint.