

Design Methodology for Railway RC Viaducts Using BIM/CIM Models

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BIM/CIM can prevent rework in the construction process by allowing more time for the design process to be considered, and it can also shorten the total time taken for the design and construction processes compared to work that uses conventional two-dimensional drawings. This paper presents a new approach to design that links BIM/CIM models with design calculations. It proposes a program that automatically generates a three-dimensional frame analysis model from BIM/CIM models, and improves upon the conventional design and construction process.