

Modelling, Analysis and Design of a Multi-Storey Helipad-Car Park: a Proposal for Canaan Land

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Abstract

The rapid growth of urbanization and the ever increasing population of urban centers in modern age of today, has brought about increase in the use of cars, roads and other transportation facilities. This singular factor has created constrains on traffic management system and parking of cars in most of these areas. That is why new innovations and technology need to be put in place to help address this issue and reduce some of the constrains on traffic management system of urban centers and also help improve their parking system. One of these innovations is the introduction of multi-storey car park. The multi-storey car park is one major innovation put in place to help with traffic management system of urban centers in most developed countries and introducing this kind of innovation into the developing countries such as Nigeria would help the traffic management system of major urban centers, bring less environmental hazards with the attendant social and economic gains for the society. That is why this research aims at the modelling, analysis and design of a multi-storey car park which would improve the traffic management of a functional modern society like that of Canaan land. Autodesk Revit and Robot soft wares are adopted and the results obtained are promising and replicable.

Index Terms— Helipad Design, Modelling, Multi-Storey Car Park, Structural Analysis, Structural Design, Traffic Challenges, Urbanization.

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