



Spinning Skylines : Exploring The Wonders Of Rotating Structure In Modern Architecture

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ABSTRACT :

A new era of modern architecture has begun with the introduction of spinning structures, which combine dynamic functionality and visual appeal. This essay explores the fascinating field of spinning buildings, a marvel that goes beyond conventional architectural methods by giving immobile structures motion and alteration. Through an analysis of case studies of renowned rotating structures worldwide, this study elucidates the architectural strategies, technical achievements, and technology innovations that enable dynamic rotation.

Keywords : Skyline , Rotating Structure

INTRODUCTION :

The goal to create structures that are both a part of nature and adaptable to life gave rise to the concept of dynamic architecture. Our structures actually undergo constant shape changes and never have the same appearance since each floor spins independently.

"Buildings designed by time, shaped by life" is how we refer to them. Imagine a building that enables people to choose their own light location and perspective based on their requirements and whims. These structures are actually integrated into the surrounding landscape. I realized early on in the design process that these are, by definition, sustainable buildings. Since they are constructed of natural materials and conserve energy, they actually become a part of the ecosystem in addition to producing.

LITERATURE SURVEY :

Modern building technology is compelled by the ongoing development of conventional construction methods to transform the current static building thought process into a dynamic building behaviour pattern. The construction of the external structure of buildings and its varied shapes have advanced with the development of BIM technology. Currently, as building technology is updated and developed, the dynamic building mode of spinning buildings is demonstrated and continuously innovated in many different countries. Thus, the purpose of this study is to go over the primary architectural features and important technical indicators of the spinning buildings of the future. Through survey, case study, and literature research, the key technological projects carried out in the current rotating building construction instances in Taiwan and overseas are examined.

METHODOLOGY :

The ultimate in architectural innovation is the construction of rotating buildings, which combine state-of-the-art technology and dynamic engineering to produce structures with actual rotation. These structures, which are frequently residential or business towers, can be oriented differently to provide inhabitants with different vistas, optimize solar gain, or lessen the effect of wind. Such buildings are constructed using a complicated, multidisciplinary process that calls for careful planning and execution. This is a thorough rundown of the procedure:

Design and Conceptualization

a. Feasibility Study:

- Evaluate the project's viability taking into account local laws, technological limitations, and environmental impact
- Conduct preliminary financial analysis to determine costs and potential returns.

b. Architectural Design:

- Work with architects to develop a plan that includes spinning components without sacrificing usefulness or structural integrity.

- Put computer-aided design to use.

CONCLUSION :

Future architecture needs to satisfy every need of an individual as well as adapt quickly to him and his wants."Architecture has always been known as static, hard, and heavy," stated Christopher Bauder. In the future, architecture will Physically adjust to our demands and expectations; as change is a constant in our day and age, our surroundings must be flexible.

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