

A comparative analytical study of the evolution of the construction of tower buildings according to the different technology of the era

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Abstract:

Egypt is now witnessing a wide architectural and urban renaissance. Starting a new century with a new republic full of developments in the construction and architecture field and a new capital full of skyscrapers that is been classified as one of the fourth generation cities. For the first time on the land of Egypt, the highest skyscrapers in Africa and the highest tower on the African coast are being built. The highest construction, electronic and information technologies in these skyscrapers are used. The research specialized in the development of the formation and construction of tower buildings according to the differences of technologies with the changes of time. Starting from mud tall buildings and stone tower buildings to the first example of a steel skyscraper "the Eiffel Tower" that has built in the time of industrial revolution. The research is interested in studying some of the modern technologies that has used in Burj Khalifa -the tallest skyscraper in the world- as well as future expectations for skyscrapers. Then an analytical comparison between some of the elected towers is been made. That is to study and prove that the difference in construction materials and in technology of the era led to the development of the formation and construction of tower buildings.

Keywords:

Architectural Art, Tower Buildings ,Architectural formation, Skyscrapers, Age Technology.