

**STRUCTURE ANALYSIS OF CABLE STAYED
BRIDGE FOOTBRIDGE (SIMULATION AND
MODELING)
DESIGN AND CALCULATION**

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**Bachelor Engineering (Hons) (Civil)
UNIVERSITI TEKNOLOGI MARA
2006**

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By

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Report is submitted as
the requirement for the degree of
Bachelor Engineering (Hons) (Civil)

**UNIVERSITI TEKNOLOGI MARA
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DECLARATION BY CANDIDATE

I Edid Azhar Bin Atan, UiTM no 2001632889 confirm that the work is my own and that appropriate credit has been given where reference has been made to the work of others.

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(15 MEI 2006)

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In the name of ALLAH, the most gracious and is most merciful, with His permission, the proposal of the project has been successfully completed. Praised to Prophet Muhammad, His companion and those who are on the path as what he preached upon, may ALLAH almighty keep us blessing and tenders.

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Thank You.

ABSTRACT

The construction of bridges is an idea that is as old as mankind itself; it is something as simple as laying a log across a stream. Man has developed many different types of bridges throughout history, but the most remarkable among them is the cable stayed bridge. Cable stayed bridges date back to the early 1600's but were not produced on any significant scale until 1938. They are defined as those consisting of a continuous deck to which cables are connected diagonally from one or more towers supporting it directly.

Their construction has since matured into a highly technical discipline, allowing for reliable means of transportation across seemingly impossible stretches of land or water. The development of the cable stayed bridge has allowed engineers to span distances longer than ever before been attempted, mainly because of its ability to withstand the forces of nature as well as support massive amounts of weight. Because of its cost effectiveness and relatively short time of construction, the bridge proves to be very economical.