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Abstract

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A scientifically tenable basis of long-span structures should be discussed according to bridges
At scientific principles of long-span structures, the historical development of bridge structures and bridgeable
bridges) and operating principles (arch bridges, systematized, cable-stayed structures according to the
bridges), and history aspects, location, purpose and size. The larger the span, the lower the potential
deviation from the pure structural forms.

A rundown in chronological order is also a history of span maximisation. The most remarkable bridge
Structures were often those that revealed a history of patterns of span. The most remarkable bridge
essential principles (beam, arch, suspension bridges) were developed. At the period from Antiquity, the
Middle Ages (up to 1500) saw the development of the arch. The period of the Renaissance,
Middle Ages (up to 1500) saw the development of the arch. The period of the Renaissance,
and steel facilitated the decisive step towards long-span, filigree structures.

The steel bridge designs of the 19th century are examples for the ability of the upcoming civil
Engineers bridge design of the 19th century and stands for new designs in bridges.
engineers to understand the inner structure and stands for new designs in bridges.

Suspension bridges have turned out to be the best-performing supporting structures for long spans
Super 2000 m bridge) have developed out of the best-performing supporting structures reinforced concrete
bridge 2000 m span) have developed out of the material concrete and prestressed reinforced concrete
bridges to reinforce the beam design in bridge construction, which again underlines the
achieved engineering feat.

Keywords: long-span structures, structural operating principles, arch bridges, beam bridges, cable-
Keywords: stone, prestressed concrete, pre-stressed reinforced concrete, arch bridges, beam bridges, cable-
stayed structures, steel bridge designs, pre-stressed reinforced concrete bridges

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