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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, double-deck structures and bridgeable bridges) and operating principles (arch bridges, systematized, cable-stayed structures according to the bridge) 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 realised a history of patterns of span. The iron truss bridge, the essential principle of suspension bridges) were developed. At the period from the Renaissance, the Middle Ages (up to the 15th century, ~1750) were developed. In the period of the Renaissance, the Middle Ages (up to the 15th century, ~1750) were developed. In the period of the Renaissance, the Middle Ages (up to the 15th century, ~1750) were developed. In the period of the Renaissance, the Middle Ages (up to the 15th century, ~1750) were developed.

The steel bridge designs of the 19th century are examples for the ability of the upcoming civil 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 (span > 2000 m). The development of the material concrete and prestressed reinforced concrete bridges led to a Renaissance of beam design in bridge construction, which again underlines the achieved engineering feat.

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

Links

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