

7 Types of Bridge



Arch Bridge

It is arch-shaped and has supports at both ends. Its weight is borne by these supports. Romans were the first to discover the use of arches in bridge construction.



Tied Arch Bridge

Tied-arch bridge is a type of bridge that has an arch rib on each side of the roadway (deck), and one tie beam on each arch, that supports the deck.



Cantilever Bridge

Cantilevers are a structure that project along the X-axis in space. They are supported on one end only. In a typical cantilever bridge, cantilever arms extending from opposite ends meet at the centre.



Truss Bridge

It is built by connecting straight elements with the help of pin joints. Triangular units connected at joints form the skeleton of a truss bridge. Truss is the oldest form of modern bridge design.



Longest Beam Bridge

Beam Bridge

A beam bridge is built from shallow steel beams, box girders and concrete. Highway overpasses, flyovers or walkways are often beam bridges. A horizontal beam supported at its ends is roughly how the structure of this bridge is.



Suspension Bridge

It is a bridge suspended from cables. Suspension cables are anchored at each end of the bridge. This bridge can span long distances and resist earthquakes. It requires less construction material, so the construction costs are less.



Cable Stayed Bridge

Structured similar to a suspension bridge, the difference lies in the way it supports load. In this bridge type, cables are attached to the towers, which bear the load.