



Key Construction Technology of Single Tower Suspension Bridge

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Abstract

In the process of road network construction in western mountainous areas of China, bridge engineers created a single tower suspension bridge in the face of deep canyon terrain. The main cable on one bank is directly anchored into the mountain, the cable saddle buttress is set in the cable tunnel, and a new type of composite cable saddle is developed, which can meet the stress and deformation requirements of the main cable saddle and splay saddle at the same time. This report takes Lvzhijiang bridge as an example to introduce the key construction technology of single tower suspension bridge.

Keywords: single tower suspension bridge; composite cable saddle; cable tunnel.



Figure 1. Over view of Lvzhijiang bridge