

Indigenous ways of knowing in Multicultural Background: A Case Study of Wooden Arch Bridge

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The wooden arch bridge has been mistaken by many civilizations as the originality of their civilization. For example, the Bian-River rainbow bridge in the painting Along the River During the Qingming Festival in Song Dynasty of China, Da Vinci's wooden arch bridge inspired by the Rhine Bridge, the Caucasus bridge for garden landscape, and Traditional design and practices for building Chinese wooden arch bridges which was inscribed in 2009 on the List of Intangible Cultural Heritage in Need of Urgent Safeguarding by UNESCO, etc. The wooden arch bridge was also collected in many science and technology museums. This paper will analyze this case with rich historical and cultural connotation and unique scientific background. We will study it as a process of designing, constructing, using and recognizing by the people of different civilizations. We will review history from a unique perspective, and understanding the position of this civilization in human civilization. And summarize the rules of using indigenous ways of knowing to achieve more comprehensive and objective scientific communication effects. Also we will appreciate the interaction and connection between different cultural backgrounds and science and technology.