

Analysis of Suspension Bridges

**Muneeb Sheikh, Anjali Mhala, Chinmay Wadhai,
Aditya Lale, Mohammad Talha, Prof. A. S. Mahinge**

Department of Civil Engineering Poly

Dr. Rajendra Gode Institute of Technology & Research, Amravati

Abstract: *Suspension Bridges are one of the most iconic and elegant structures in civil engineering and used for larger spans. The main purpose of this report is to understand the basic concept of suspension bridge and Dynamic Time History Analysis [Dynamic Analysis] for different models of suspension bridge. The analysis of suspension bridge is carried out by SAP2000 Software. In this study, we have considered eight different models of different Aspect ratio with different types of Hangers and analyzed them in SAP2000 Software. From the work carried by SAP2000 the Modal Analysis results it was observed that, the time period (Sec) is higher for suspension bridges with vertical hangers compared to inclined hangers.*

Keywords: SAP 2000 Software, Suspension Bridge, Inclined Hangers, Vertical Hangers

