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**The Application of Operating Deflection Shape Analysis to Resolve Structural
Vibration Problems**

B. Alavi, E.P. Horton, and R.T. Zemdegs
Ontario Hydro
Pickering ND

Abstract

This paper describes the application of Operating Deflection Shape (ODS) analysis for the resolution of structural vibration problems. ODS analysis is explained, and two case studies are presented. Data collection and interpretation are described for these cases. The effectiveness of this analysis technique is demonstrated for pinpointing the root cause of complex structural vibration problems. An evaluation of maintenance history illustrates the benefit of applying ODS to avoid unnecessary maintenance costs.