

Dynamic Analysis of Turbine Foundation

Authors : Mogens Saberi

Abstract : This paper presents different design approaches for the design of turbine foundations. In the design process, several unknown factors must be considered such as the soil stiffness at the site. The main static and dynamic loads are presented and the results of a dynamic simulation are presented for a turbine foundation that is currently being built. A turbine foundation is an important part of a power plant since a non-optimal behavior of the foundation can damage the turbine itself and thereby stop the power production with large consequences.

Keywords : dynamic turbine design, harmonic response analysis, practical turbine design experience, concrete foundation

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