

**Field Experience with Vibration of Well Balanced Rotors
Due to Shaft-Bearing Misalignment and Other Factors**

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ABSTRACT

Five cases with vibration of well-balanced rotors in gas turbines, a steam turbine and in an electrical exciter are presented. One case resulted in a cracked shaft. Discussed are damages, symptoms, root causes, and corrective actions. Most of the problems were attributed to bearing misalignments that were achieved by a number of unexpected ways.