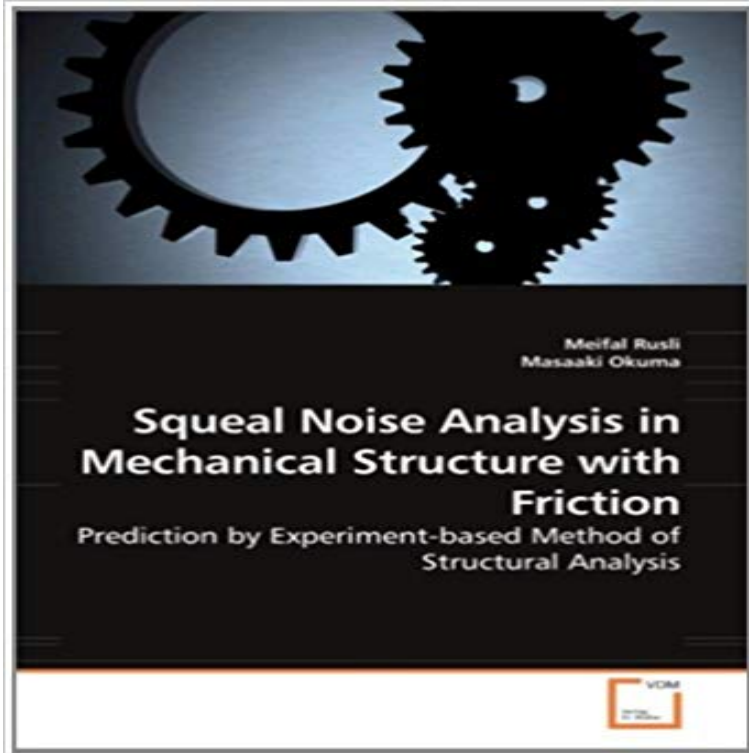


Squeal Noise Analysis in Mechanical Structure with Friction: Prediction by Experiment-based Method of Structural Analysis



Squeal noise is observed frequently when one metal counter face slides over another metal counter face under certain conditions. Squeal frequency range is 500 Hz - 20 kHz, with very sharp peaks and high sound pressure level. Two cases that squeal noise is often found are railway systems and braking systems. In this book author proposes new experiment-based method to predict squeal noise occurrence in a structure with friction. It is found that modal coupling instability analysis is an appropriate mechanism to explore more deeply about this kind of noise. There are two aspects that have significant role and related each other in squeal noise generation i.e.; the structure and contact surfaces. The author proposes an idea to predict the squeal noise occurrence by experimental modal analysis and experimental spatial matrix identification. Using spatial matrices that derived from experimental modal data, unstable mode coupling that causes squeal noise can be predicted within the practically realistic range of friction coefficient and contact stiffness.

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The reliability and accuracy of structural dynamics identification has been improved by integration of the navigator, modal testing and identification methods. Noise and Vibration Analysis of Boat Based on Experiment-Based . in Mechanical Structure with Friction-Prediction by Experiment-based Method **Effects of material properties on generation of brake squeal noise Nonlinear dynamics modeling and analysis of disc brake squeal** Squeal Noise Analysis in Mechanical Structure with Friction: Prediction by Experiment-based Method of Structural Analysis. By Meifal Rusli General. 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dynamics modeling and analysis of disc brake squeal considering acting process . [14] Rusli M., Okuma M. Squeal noise analysis in mechanical structure with friction: prediction by experiment-based method of structural analysis. **Squeal Noise Analysis in Mechanical Structure with Friction** Proceedings of the Institution of Mechanical Engineers, Part D: Journal of (2017) Reduced order models for nonlinear dynamic analysis of structures with (2017) Simulation of Transient Nonlinear Friction-Induced Vibrations Using (2016) Reduction Methods Applied to Aircraft Brake Squeal Prediction and Simulation. **Squeal Noise Analysis in Mechanical Structure with Friction** aDepartment of Mechanical Engineering, USTO Oran University, B.P 1505 El - Mnaouer, Keywords: Disc brake squeal finite element analysis Youngs modulus for the experimental evaluation of the dynamic properties of structures (). . Figure 7 Predicted unstable frequencies for varying coefficient of friction values.