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Vibration Control of FRP Shaft Using Electromagnetic Actuator

By Mohammad Amin Rashidifar

LAP Lambert Academic Publishing Jan 2015, 2015. Taschenbuch. Condition: Neu. Neuware - This book introduces a new method for active vibration control of FRP rotating shaft. In the direction of composite rotor shaft system few works are also available. The use of composite material is increasing day by day in the various industries because of FRP composites are lighter, more durable and have infinite design flexibility. So details study of laminated composite shaft is required. Due to its light weight and flexibility this types of shafts do not sustains large vibration in the operational condition. Active vibration control of rotating composite shaft is also very important in the area of research. Therefore the objectives of the present works are laid down as follows: Finite element modeling for vibration analysis for rotating composite shaft, with disk and bearing. Effect of ply angle on the responses of the composite shaft. Modeling of electromagnetic actuator. Study of active vibration control of rotating composite shaft using electromagnetic actuators and PD control scheme. 80 pp. Englisch.

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