

<<振动工程及其机械技术>>

图书基本信息

书名：<<振动工程及其机械技术>>

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内容概要

《振动工程及其机械技术：第5届国际会议论文集》收录了华中大土木工程与力学学院与香港城市大学联合举办的“第五届振动工程及其机械技术国际会议”上的78篇论文。其内容包括孟光教授介绍的旋转机械系统动力学与控制方面的研究；K.M.Liew教授介绍的有关MEMS和智能系统的动力学研究进展；旋转机械领域的泰斗、著名空气动力学、结构动力学和疲劳专家J.S.Rao教授介绍的涡轮叶片疲劳寿命估计方面的研究情况；R.Rzadkowski教授的报告介绍的定子叶片数目对非稳态转子叶片载荷力的影响；陈文教授的报告介绍的有关软材料振动声频变耗散方面的研究等。

书籍目录

1.Fatigue life estimation of turbomachinery blades
2.A survey on frequency-dependent dissipation of soft matter vibration and acoustics
3.The effect of change in the number of stator blades in the stage on unsteady rotor blade forces
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5.Study on a mechanical semi-active vibration absorber and its control strategy
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7.Natural frequencies of nonlinear transverse vibration of axially moving beams in the supercritical regime
8.A stochastic multi-step transversal linearization method (MTL) in engineering dynamics
9.Rayleigh-ritz method in the study of transverse vibration of nonhomogeneous orthotropic rectangular plates of uniform thickness resting on winkler foundation
10.Influence of centrifugal stiffening on a rotor system with a flexible diaphragm coupling
11.Dynamic modeling in process control for monitoring the condition of vibrating machinery
12.Active control of flexible vibration systems with inclined combined mounts
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14.The method of reduction of aerodynamic forces generated in turbine blade seals
15.Dynamic stability and chaos of a space three-bar supporter of shape memory alloys
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17.A discussion on the physics and truth of nanoscales for vibration of nanobeams based on nonlocal elastic stress field theory
18.Optimal design of viscoelastic dampers connecting adjacent structures
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21.Nonlinear dynamic analysis and experimental verification on bolt joint contact structure
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27.Calculation and analysis of torsional vibration of turbine generator shafts
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29.Analysis on the vibration of needle bar take-up mechanism in high-speed and twin-needle high speed lockstitcher based on multi-body dynamics
30.Monitoring dynamic characteristics for a supertall structure under construction
31.Research on pipeline pressure fluctuation law of hydraulic vibration system controlled by wave exciter
32.Analysis of dynamic response of an embedded railway track subjected to a moving load.....

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