Passive Vibration Isolation

Description: Production equipment for microelectronics, MEMS, and nanotechnology cannot function without vibration isolation. Process plant, power generation machinery, oil, gas, and petrochemical equipment are all subject to vibration. This vibration causes a range of problems and headaches for the engineer that can lead to failure of equipment, downtime, and extra maintenance costs. Isolating vibration and ameliorating it is vital. This valuable and well-written text provides a comprehensive treatment of the principles of design and means for realization of passive vibration isolation systems for real-life objects. A special emphasis is given to effective techniques and methods that are not yet widely used in the practice of vibration isolation in industry. It is written with practitioners in mind and many of the problems addressed and the solutions presented are relevant not only to the isolation of stationary sensitive equipment but also to civil engineering and transport applications.

CONTENTS INCLUDE

- Inertia and geometric properties of typical machines and other mechanical devices
- Dynamics of single-degree-of-freedom vibration isolation system
- Vibration isolation system under random excitation
- Isolation of vibration-sensitive objects
- Vibration isolation systems; Isolation requirements for vibration producing objects
- Engine and machinery mounting in vehicles
- Elasto-damping materials (EDM)
- High damping metals
- Material selection for vibration isolators
- Vibration isolators with metal flexible elements
- High angular stiffness and anisotropic vibration isolation systems
- Pneumatic isolators
- Power transmission couplings

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