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Structural Vibration: Analysis and Damping C. F. Beards BSc, PhD, C Eng, MRaES, MIOA Consultant in Dynamics, Noise and Vibration Formerly of Imperial College of Science, Technology and Medicine, University of London A member of the Hodder Headline Group LONDON SYDNEY AUCKLAND Copublished in the Americas by Halsted Press an imprint of JohnWiley & Sons Inc.

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The performance of different solutions to global vibration reduction using external damping is discussed. The solutions are either uneven distribution of structural damping or use of vibration absorbers. To this end, a comparative study is carried out, built on simple analytical models. It is shown that a well-chosen solution can produce a substantial reduction of global vibration level.

Analysis of Vibration Reduction by Damping Using Simple ...

Sometimes, a structure contains intentional discrete dampers, like the shock absorbers in a wheel suspension. Shock absorbers. Image by Avsar Aras — Own work. Licensed under CC BY-SA 3.0, via Wikimedia Commons. Such components obviously have a large influence on the total damping in a structure, at least with respect to some vibration modes.

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Viscous vs. Structural Damping in Modal Analysis

Structural Vibration: Analysis and Damping C. F. Beards No preview available - 1996. Common terms and phrases. amplitude amplitude of vibration applied assumed axis beam body of mass calculate clamping composite materials considered coordinates corresponding mode shapes damper damping ratio dashpot degree of freedom displacement dynamic system effect elastic elements energy dissipation ...

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Before attempting to reduce the vibration levels in a machine or structure by increasing its damping, every effort should be made to reduce the vibration excitation at its source. It has to be accepted that many machines and processes generate a disturbing force of one sort or another, but the frequency of the disturbing force should not be at, or near, a natural frequency of the structure ...

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