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Developments in the understanding of materials and structural behaviour in the latter part of the 20th century have been significant, with detailed understanding being developed of topics such as fracture mechanics, earthquake engineering, composite materials, temperature effects on materials, dynamics and vibration control, fatigue, creep and ...

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A particular case where much effort is spent on damping is in civil engineering structures in seismically active areas. It is of the utmost importance to reduce the vibration levels in buildings if hit by an earthquake. The purpose of such dampers can be both to isolate a structure from its foundation and to provide dissipation.

[International Journal of Structural Stability and Dynamics](#)

The journal focuses on earthquake engineering in all aspects, including seismology, tsunamis, ground motion characteristics, soil and foundation dynamics, wave propagation, probabilistic and deterministic methods of dynamic analysis, behavior of structures, and methods for earthquake resistant design and retrofit of structures that are germane ...

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Professor in the Department of Civil and Environmental Engineering. Research Interests: Structural dynamics, earthquake engineering, seismic hazard mitigation for building contents, nonlinear dynamics, system identification, optimal control with application to systems with controllable damping.

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