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Formulation of a control algorithm for dynamic structural systems (Conference Paper)

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Abstract

Passively controlled structural systems may exhibit a rare capability in resisting dynamic actions under adverse special or unexpected conditions. Improvements of the overall performance of a passive system may be obtained by introducing additional control devices, possibly coupling different technological solutions and moving to mixed systems. In this paper the performance of a base isolation system is increased by embedding in the control layout an active device, controlled by a newly designed control algorithm. © Civil-Comp Press, 2015.

Author keywords

Civil structures; Control algorithm; Dynamic control; Response mitigation

Indexed keywords

Additional control; Base isolation systems; Civil structure; Control layouts; Dynamic controls; Response mitigation; Structural systems; Technological solution

Engineering main headings: Algorithms

ISSN: 17593433 Source Type: Journal Original language: English
Document Type: Conference Paper
Publisher: Civil-Comp Press

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ISSN 1759-3433

CCP: 108
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Edited by: J. Krulis, Y. Tsompanakis and B.H.V. Topping

Paper 141
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doi:10.4203/ccp.108.141
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O. Corbi, "Formulation of a Control Algorithm for Dynamic Structural Systems", in J. Krulis, Y. Tsompanakis, B.H.V. Topping, (Editors), "Proceedings of the Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing", Civil-Comp Press, Strlingshire, UK, Paper 141, 2015. doi:10.4203/ccp.108.141

Keywords: civil structures, dynamic control, control algorithm, response mitigation.

Summary

Passively controlled structural systems may exhibit a rare capability in resisting dynamic actions under adverse special or unexpected conditions. Improvements of the overall performance of a passive system may be obtained by introducing additional control devices, possibly coupling different technological solutions and moving to mixed systems. In this paper the performance of a base isolation system is increased by embedding in the control layout an active device, controlled by a newly designed control algorithm.

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