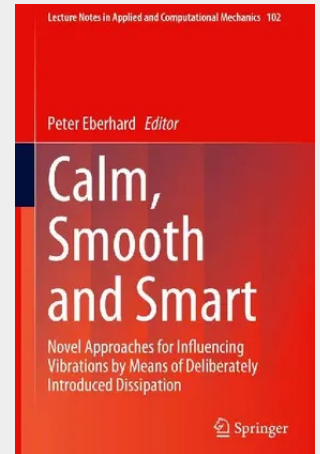


Calm, Smooth and Smart

Novel Approaches for Influencing Vibrations by Means of Deliberately Introduced Dissipation

This book contains and summarizes research carried out within the DFG Priority Programme 1897: "Calm, Smooth and Smart - Novel Approaches for Influencing Vibrations by Means of Deliberately Introduced Dissipation". The contributions help reduce unwanted vibrations by developing novel approaches for influencing them and lead to a "calm, smooth and smart" behaviour of technical units. "Calm" represents the demand to avoid or at least to severely reduce unwanted noise generated by technical installations. "Smooth" ensures a still comfortable and jerk-free operation of them. Finally, "smart" means that the introduced damping devices not only help to achieve the desired vibrational behaviour of the overall technical systems, but also that they take over additional functional tasks. The results presented in this volume summarize the state-of-the-art and provide motivation for future research. The book is intended for experienced researchers as well as for doctoral and post-doctoral students in engineering, mathematics and physics, as well as industrial researchers interested in the field.

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