

Seminar

17. Juni 2010 15:30h HS 44-465



zu folgendem Vortrag wird herzlich eingeladen:

Piezoelectric adaptive structural elements modelling, simulation and benchmarking: achievements and prospectives

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During the last two decades modelling, simulation and benchmarking of piezoelectric adaptive structural elements (beams, plates and shells) have attracted a lot of academic researches. This seminar will focus on the main achievements (contributions) of the speaker to this field; this concerns the electromechanical coupling representation in piezoelectric adaptive structural elements modelling, the key features for realistic simulation, such as the equipotential condition for electroded piezoelectric transducers, and a set of experimental benchmarks for piezoelectric beam and plate models validation. Prospective for future directions for simulation, modelling and benchmarking of piezoelectric adaptive structural elements will be also given; finally, depending on the available time, some recent design based innovative piezoelectric actuators will be briefly presented as a closure of this talk.



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