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## Publikationer

### **DAMPED UPDATED FINITE ELEMENT MODELS FOR DYNAMIC DESIGN**

Arora, V., sep. 2019, *Proceeding of 14th International Conference on Vibration Problems*. Springer

### **Use of 3D Scan of Weld Joint in Finite Element Analysis and Stochastic Analysis of Hot-spot Stresses in Tubular Joint for Fatigue Life Estimation**

Larsen, M. L., Arora, V., Lützen, M., PEDERSEN, RONNIE. R. & Putnam, E., jun. 2019.

### **Validation and model updating of weld in finite element model of K-node structure using experimental data for fatigue analysis**

Larsen, M. L., Arora, V., Lützen, M., Pedersen, R. R. & Putnam, E., 15. apr. 2019, *Trends in the Analysis and Design of Marine Structures*. Parunov, J. & Soares, C. G. (red.). London: CRC Press, s. 310-316 (Proceedings in Marine Technology and Ocean Engineering, Bind 2).

### **Determination of optimal coupling stiffness using modal updating techniques for Stiffened Plates**

Shrivastava, K., Vijayan, K. & Arora, V., 2019, I : *Procedia Structural Integrity*. 14, s. 556-563

### **Damped updated finite element model for damage detection**

Arora, V. & Vijayan, K., jul. 2018, *25th International Congress on Sound and Vibration 2018 (ICSV 25) : Hiroshima Calling*. International Institute of Acoustics and Vibration, Bind 1. s. 4725-4732

### **Determination of optimal coupling stiffness using modal updating techniques for a Stiffened Plates**

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### **Use of damping identification technique for damage detection**

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### **Identification of viscous and structural damping in the dynamic system**

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**Natural frequencies-based stochastic finite element model updating using equal weighting factors**

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**Updating finite element model of façade scaffolds anchor considering experimental data**

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**A Blind Source Separation Based Approach for Modal Parameter Estimation in Traditional Input-Output Experimental Modal Analysis Framework**

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**Design of new scaffold anchor based on the updated finite element model**

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**Validation of finite element updated models of the developed façade scaffold anchor**

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**Direct structural damping identification method using complex FRFs**

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**Hybrid viscous-structural damping identification method**

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**Direct structural damping identification method**

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**Use of resonance and antiresonance frequencies for better matching of frequency response function**

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**Structural damping identification using finite element model updating**

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**Structural dynamic modifications using damped finite element model updating**

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**Comparative Study of Finite Element Model Updating Methods**

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**Further experience with model updating incorporating damping matrices**

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**Identification of dynamic properties of radial air-foil bearings**

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**Comparative study of damped FE model updating methods**

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