Marcus Aßmus List of Publications

Journal Publications

[9] M. Haghi, M. Aßmus, K. Naumenko, and H. Altenbach. "Mechanical Models and Finite-Element Approaches for the Structural Analysis of Photovoltaic Composite Structures: A Comparative Study". In: *Mechanics of Composite Materials* 54.4 (2018), pp. 415–430. DOI: -.

- [8] J. Nordmann, M. Aßmus, and H. Altenbach. "Visualising Elastic Anisotropy: Theoretical Background and Computational Implementation". In: *Continuum Mechanics and Thermodynamics* 30.4 (2018), pp. 689–708. DOI: 10.1007/s00161-018-0635-9.
- [7] M. Aßmus, K. Naumenko, and H. Altenbach. "Mechanical Behaviour of Photovoltaic Composite Structures: Influence of Geometric Dimensions and Material Properties on the Eigenfrequencies of Mechanical Vibrations". In: *Composites Communications* 6.- (2017), pp. 59–62. DOI: 10.1016/j.coco.2017.10.003.
- [6] M. Aßmus, J. Eisenträger, and H. Altenbach. "Projector Representation of Isotropic Linear Elastic Material Laws for Directed Surfaces". In: Zeitschrift für Angewandte Mathematik und Mechanik 97.12 (2017), pp. 1625–1634. DOI: 10.1002/zamm.201700122.
- [5] M. Aßmus, S. Bergmann, K. Naumenko, and H. Altenbach. "Mechanical Behaviour of Photovoltaic Composite Structures: A Parameter Study on the Influence of Geometric Dimensions and Material Properties under Static Loading". In: *Composites Communications* 5.- (2017), pp. 23–26. DOI: 10.1016/j.coco.2017.06.003.
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- [1] M. Aßmus, S. Jack, K.-A. Weiß, and M. Köhl. "Measurement and simulation of vibrations of PV-modules induced by dynamic mechanical loads". In: *Progress in Photovoltaics: Research and Applications* 19.6 (2011), pp. 688–694. DOI: 10.1002/pip.1087.

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- [3] W. Herrmann, N. Bogdanski, F. Reil, M. Köhl, K.-A. Weiß, M. Aßmus, and M. Heck. "PV module degradation caused by thermomechanical stress: real impacts of outdoor weathering versus accelerated testing in the laboratory". In: *Proceedings of the International Society for Optical Engineering (Reliability of Photovoltaic Cells, Modules, Components, and Systems III)*. Vol. 7773. San Diego, USA, 2010, p. 0l. DOI: 10.1117/12.859809.
- [2] M. Aßmus, S. Jack, M. Köhl, and K.-A. Weiß. "Dynamic Mechanical Loads on PV-Modules". In: *Proceedings of the 24th European Photovoltaic Solar Energy Conference*. Hamburg, Germany, 2009, pp. 3395–3397. DOI: 10.4229/24thEUPVSEC2009-4AV.3.34.

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Book Contributions

[1] M. Aßmus, S. Bergmann, J. Eisenträger, K. Naumenko, and H. Altenbach. "Consideration of Non-Uniform and Non-Orthogonal Mechanical Loads for Structural Analysis of Photovoltaic Composite Structures". In: *Mechanics for Materials and Technologies*. Ed. by H. Altenbach, R. V. Goldstein, and E. Murashkin. Vol. 46. Advanced Structured Materials. Singapore: Springer, 2017, pp. 73–122. DOI: 10.1007/978-3-319-56050-2_4.

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[1] K. Naumenko and M. Aßmus, eds. *Advanced Methods of Continuum Mechanics for Materials and Structures*. Vol. 60. Advanced Structured Materials. Singapore: Springer, 2016. DOI: 10.1007/978-981-10-0959-4.

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