

ABSTRACTS

developments in the area of mechanical metamaterials.

Volume: 8 2023 Issue: 3 ISSN 2453-7306

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https://doi.org/10.22306/am.v8i3.98

Received: 21 June 2023 Revised: 03 Aug. 2023 Accepted: 31 Aug. 2023

Mechanical metamaterials: properties and classification

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Keywords: metamaterial, additive technology, micro-lattice structure, negative Poisson ratio, auxetic structure. **Abstract:** The work presents and describes distinctive properties and classification of most-known metamaterial. The principle of physical preconditions has been described together with their mechanical behaviour in the implementation of vision applications in the additive manufacturing industry. In addition, this paper presents an overview of the recent