MULTHEM

Multi Material Additive Manufacturing for Lightweight and Thermal Management

www.multhem.eu
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Carbon Fibre Composites (CFC) have been increasingly replacing metals in products requiring lightweight features. However, due to the traditional manufacturing process and poor thermal conductivity, the use of CFC has been limited to structural applications. For example, the casings for batteries, electrical motors, and power electronics are typically manufactured entirely in aluminium because they are require to dissipate heat efficiently. Using pure aluminium is a heavier and less cost-effective solution than using pure CFC. Our vision of MULTHEM is to use the different benefits from metals and CFC materials to develop and validate new reliable additively manufactured processes and new metal-polymer multi-materials with structural and cooling features with a more cost-effective approach as compared to traditional methods.

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