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Additive and Subtractive Manufacturing of Composites

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Message from the Guest Editors

Composite materials can leverage the advantages of various materials and overcome the defects of a single material; thus, they are widely used in aerospace, automobile manufacturing, electrical and electronic, biomedical, construction, etc. Simultaneously, the rapid development of composite materials renders it difficult for traditional single manufacturing methods to fulfill the demand of high-precision, rapid, and efficient manufacturing. Additive and subtractive manufacturing technologies provide numerous advantages in composite manufacturing, including high flexibility, high precision, high efficiency, low cost, and customizability. Additive manufacturing facilitates rapid near-net forming of complex-shaped composite parts. As a complement, subtractive manufacturing can further remove excess material and achieve high-precision forming of parts. However, various challenges need to be faced in the process of additive and subtractive manufacturing of composites, such as composite design, manufacturing process, part design, forming mechanism, and part quality, which still need to be continuously explored by colleagues.





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Message from the Editor-in-Chief

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