

Editorial

SPECIAL ISSUE ON LIGHTWEIGHT STRUCTURES

Lightweight structures generally offer outstanding benefits in terms of reducing weight without affecting essential mechanical characteristics. Due to the potential performance benefits, such structures are considered as vital elements in all engineering and science applications especially aerospace, defence, automotive and biomedical fields. In many practical situations, these structures will undergo severe loading cases including impact, shock and blast. This special issue of the International Journal of Aerospace Innovations (IJAI) has been proposed to highlight original research work carried out by engineers and researchers concerned with the design of lightweight structures including design optimization, crashworthiness, energy absorbing systems, structural damage and composites.

This special issue of the IJAI contains seven peer reviewed papers dealing with lightweight structures and materials. We hope that this special issue allows the reader to appreciate the importance of lightweight structures in many engineering and science disciplines. We feel that these seven papers will become useful and valuable references for the community.

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