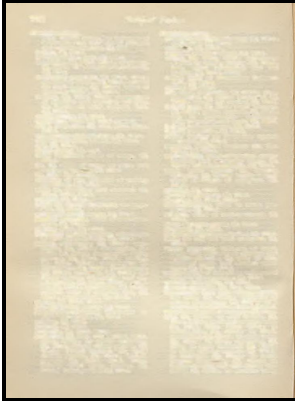


Survey of data on the fatigue properties of D.T.D. 363 and L.65 (D.T.D. 364) aluminium alloys

Aeronautical Research Laboratories - 3D printing of Aluminium alloys: Additive Manufacturing of Aluminium alloys using selective laser melting



Description: -

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Many sectors are now benefiting from fabricating complex structures using AM technologies to achieve the objectives of light-weighting, increased functionality, and part number reduction, among others.

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. Aluminium alloys are of the main material systems receiving attention in SLM research, being favoured in many high-value applications.

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AM also lends potential in fulfilling demands for reducing the cost and design-to-manufacture time. Metal Additive Manufacturing AM processes, such as selective laser melting SLM, enable the fabrication of arbitrary 3D-structures with unprecedented degrees of freedom. A number of studies in recent years have developed approaches to remedy them and reported successful SLM of various Al-alloys and have gone on to explore its potential application in advanced componentry.

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However, processing them is challenging due to the difficulties associated with laser-melting aluminium where parts suffer various defects. Research is rapidly progressing in this field, with promising results opening up a range of possible applications across both scientific and industrial sectors. This paper reports on recent advancements in this area and highlights some key topics requiring attention for further progression.

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It aims to develop a comprehensive understanding of the interrelation between the various aspects of the subject, as this is essential to demonstrate

credibility for industrial needs. .

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