



Friction Stir Welding of Dissimilar Alloys and Materials (Friction Stir Welding and Processing)

Nilesh Kumar, Rajiv S. Mishra, Wei Yuan

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This book will summarize research work carried out so far on dissimilar metallic material welding using friction stir welding (FSW). Joining of dissimilar alloys and materials are needed in many engineering systems and is considered quite challenging. Research in this area has shown significant benefit in terms of ease of processing, material mixing, and superior mechanical properties such as joint efficiencies. A summary of these results will be discussed along with potential guidelines for designers.

- Explains solid phase process and distortion of work piece
- Addresses dimensional stability and repeatability
- Addresses joint strength
- Covers metallurgical properties in the joint area
- Covers fine microstructure
- Introduces improved materials use (e.g., joining different thicknesses)
- Covers decreased fuel consumption in light weight aircraft
- Addresses automotive and ship applications

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