

Friction Stir Casting Modification For Enhanced Structural Efficiency A Volume In The Friction Stir Welding And Processing Book Series

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Friction Stir Casting Modification For

Friction Stir Casting Modification for Enhanced Structural Efficiency: A Volume in the Friction Stir Welding and Processing Book Series summarizes current research and applications of friction stir processing techniques for casting modification.. Research in this area has shown significant benefit in terms of fatigue performance as a result of friction stir processing.

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Dissimilar metal joining through friction stir welding (FSW), high strength low alloy (HSLA) steel FSW development, aluminum alloy casting modification through friction stir are some of the works Dr. Jana has been greatly involved with. Dr. Jana earned his Ph.D. in Metallurgical Engineering from Missouri University of Science & Technology, Rolla in 2009.

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Provides the benefits of friction stir casting, including its solid phase process, low distortion of workpiece, good dimensional stability and repeatability, high joint strength, and more Summarizes current research and applications of friction stir processing techniques for casting modification Presents it usage in the production of products such as rugs, wire, or any other gases, and its applications for decreased fuel consumption in light weight aircraft, and its automotive and ship ...

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Friction stir processing is a method of changing the properties of a metal through intense, localized plastic deformation. This deformation is produced by forcibly inserting a non-consumable tool into the workpiece, and revolving the tool in a stirring motion as it is pushed laterally through the workpiece. The precursor of this technique, friction stir welding, is used to join multiple pieces of metal without creating the heat affected zone typical of fusion welding. . 7 When ideally implemented

Friction stir processing - Wikipedia

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Friction stir processing (FSP) was developed based on the principles of friction stir welding (FSW) which was developed and patented by TWI Ltd, Cambridge, UK in 1991. FSP is a solid-state welding, microstructural modification technique using a frictional heat and stirring action, has recently attracted attention for making