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Friction Stir Welding

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Friction stir welding (FSW) is a solid-state welding process that is gaining wide acceptance in industry, especially the shipbuilding, aerospace, mass transportation and automotive industries. FSW is particularly suited to those industries that use aluminium and its alloys. This authoritative book provides a comprehensive review of the subject of friction stir welding and covers topics such as process basics, equipment, modelling, inspection and quality control and applications.

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Key Features: provides essential information on topics such as basic process overview, materials deformation and joint formation in friction stir welding; inspection and quality control and friction stir welding equipment requirements are discussed as well as industrial applications of friction stir welding; reviews the variables involved in friction stir welding including residual stresses, effects and defects of friction stir welds, modelling thermal properties, metallurgy and weld ...

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Friction Stir Welding From Basics to Applications by Daniela Lohwasser, Zhan Chen. This book aims to describe the main process principles followed by a deep analysis of the material flow helping to understand why this process works so well. After that, a description of the equipment requirements followed by equipment examples is given.

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Friction Stir Welding is a solid-state process, which means that the objects are joined without reaching melting point. This opens up whole new areas in welding technology. Using FSW, rapid and high quality welds of 2xxx and 7xxx series alloys, traditionally considered unweldable, are now possible.

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Friction Stir Welding - 1st Edition - Elsevier

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