



Optimization of Parameters for Friction stir welded joint on AA6070

By Er. Gurmeet Singh

LAP Lambert Academic Publishing Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - Friction stir welding is the process in which metal does not melt before making a joint. It is a solid state joining process which is widely used for joining for aluminium alloys in ship manufacturing, aerospace, and automobile industry. This is an eco-friendly welding technique because of no welding consumables used, and no harmful emission to the surroundings. In this study friction stir welding was performed on vertical milling machine with AA6070. Tool was prepared on lathe with different pin length. Manageable process parameters that affect the quality of weld joint are rotational speed (RPM), traverse speed (mm/min), pin depth (mm). and these parameters should be optimized to obtain a sound weld joint. In this study optimization process parameter was done for getting mechanically sound weld joint. It is observed that, during the friction stir welding, deformation takes place at the nugget zone only and the evolved microstructure which strongly affects the mechanical properties of the joint. The aim of present study is to understand the effect of process parameters on mechanical properties of the friction stir welded joints. 104...



READ ONLINE
[3.34 MB]

Reviews

Good electronic book and useful one. It usually does not expense a lot of. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Annette Boyle**

A must buy book if you need to adding benefit. It absolutely was written very properly and valuable. I found out this book from my i and dad advised this ebook to find out.

-- **Amanda Larkin**

Other eBooks



No Friends?: How to Make Friends Fast and Keep Them

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Do You Have NO Friends ? Are you tired of not having any friend and being lonely all the time...



What is in My Net? (Pink B) NF

Pearson Education Limited. Book Condition: New. This title is part of Pearson's Bug Club - the first whole-school reading programme that joins books and an online reading world to teach today's children to read. In this book, Zac and Daisy are fishing....



Piano Concerto, Op.33 / B.63: Study Score

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English Brand New Book ***** Print on Demand *****.Composed in the late summer of 1876, Dvorak s first effort at a full-blown concerto shows signs of an...



My Brother is Autistic

Barron's Educational Series Inc.,U.S. Paperback. Book Condition: new. BRAND NEW, My Brother is Autistic, Jennifer Moore-Mallinos, Medical experts are just beginning to understand varying degrees of autism and its impact on both the autistic child and his family. This book describes an...



Readers Clubhouse Set a Nick is Sick

Barron s Educational Series, United States, 2006. Paperback. Book Condition: New. Carol Koeller (illustrator). 221 x 147 mm. Language: English . Brand New Book. This is volume three, Reading Level 1, in a comprehensive program (Reading Levels 1 and 2) for beginning...



Sport is Fun (Red B) NF

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, Sport is Fun (Red B) NF, Dianne Irving, This title is part of Pearson's Bug Club - the first whole-school reading programme that joins books and an online reading world to teach today's...