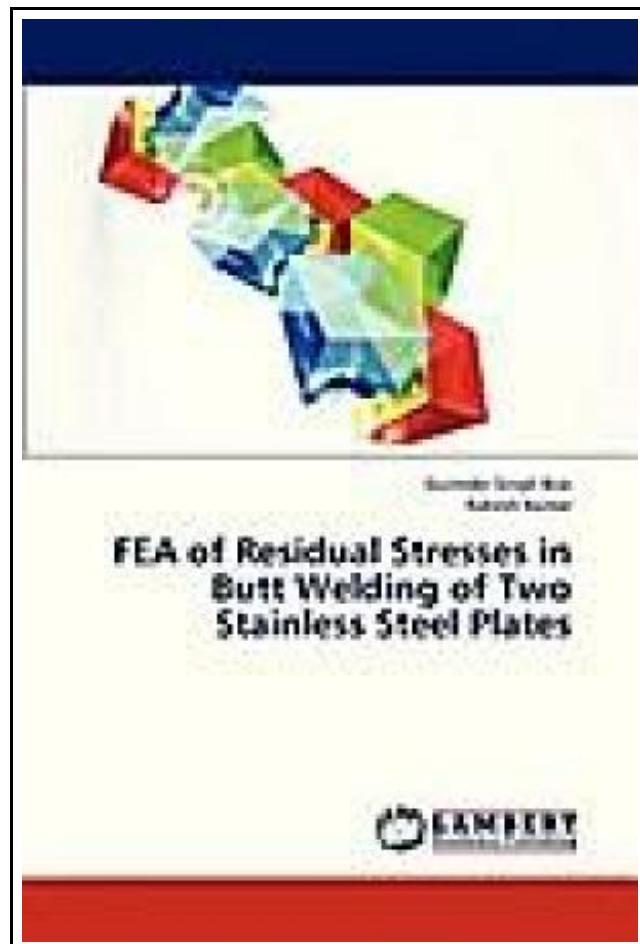


FEA of Residual Stresses in Butt Welding of Two Stainless Steel Plates



Filesize: 9.18 MB

Reviews

Here is the finest publication i have read through until now. I am quite late in start reading this one, but better then never. I am just easily can get a pleasure of studying a created publication.
(Morgan Bashirian)

FEA OF RESIDUAL STRESSES IN BUTT WELDING OF TWO STAINLESS STEEL PLATES

[DOWNLOAD](#)

LAP Lambert Academic Publishing Dez 2014, 2014. Taschenbuch. Book Condition: Neu. 223x159x7 mm. This item is printed on demand - Print on Demand Neuware - One of the most widely used permanent joining processes is welding. Welding results in a very complex thermal cycle which results in irreversible elastic-plastic deformation and residual stresses in and around fusion zone and heat affected zone (HAZ). Residual stresses may be an advantage or disadvantage in structural components depending on their nature and magnitude. Due to these residual stresses produced in and around the weld zone the strength and life of the component is reduced. In present study a commercially available finite element code was used to model and analyze a three dimensional model of the butt welded joint of two AISI 304 stainless steel plate used for manufacturing sugar hoppers. Butt welding simulations were performed by four different welding techniques - submerged arc welding (SAW), manual metal arc welding (MMAW), gas metal arc welding (MIG) and gas tungsten arc welding (TIG). Analysis of butt welded joint showed that butt welds produced by MIG resulted in lowest value of residual stress in plates. Critical analysis of butt welded joint by MIG and TIG showed that by increasing plate thickness, the residual stresses also increases. 68 pp. Englisch.

[Read FEA of Residual Stresses in Butt Welding of Two Stainless Steel Plates Online](#)[Download PDF FEA of Residual Stresses in Butt Welding of Two Stainless Steel Plates](#)

Relevant eBooks



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

[Read Document »](#)



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

[Read Document »](#)



Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird

Paperback. Book Condition: New. Not Signed; This is a Tinga Tinga tale inspired by traditional stories from Africa. Lion is king of Tinga Tinga but he can't roar! Can his friend Flea help Lion to...

[Read Document »](#)



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...

[Read Document »](#)



Have You Locked the Castle Gate?

Addison-Wesley Professional. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Is your computer safe Could an intruder sneak in and steal...

[Read Document »](#)