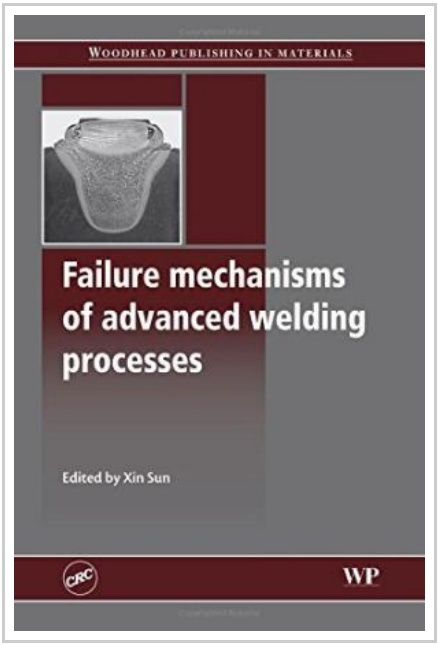

Failure Mechanisms of Advanced Welding Processes (Hardback)

By -

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2010. Hardback. Book Condition: New. New.. 234 x 156 mm. Language: English . Brand New Book. Many new, or relatively new, welding processes such as friction stir welding, resistance spot welding and laser welding are being increasingly adopted to replace or improve on traditional welding techniques. Before advanced welding techniques are employed, their potential failure mechanisms should be well understood and their suitability for welding particular metals and alloys in different situations should be assessed. Failure mechanisms of advanced welding processes provides a critical analysis of advanced welding techniques and their potential failure mechanisms. The book contains chapters on the following topics: Mechanics modelling of spot welds under general loading conditions and applications to fatigue life predictions, Resistance spot weld failure mode and weld performance for aluminium alloys, dual phase steels and TRIP steels, Fatigue behaviour of spot welded joints in steel sheets, Non-destructive evaluation of spot weld quality, Solid state joining - fundamentals of friction stir welding, Failure mechanisms in friction stir welds, Microstructure characteristics and mechanical properties of laser weld bonding of magnesium alloy to aluminium alloy, Fatigue in laser welds, Weld metal ductility and its influence on formability of tailor welded blanks,...

Reviews

Extensive guideline! Its this kind of very good study. It really is full of knowledge and wisdom I discovered this book from my i and dad encouraged this publication to understand.

-- ***Mr. Jerry Littel***

This composed pdf is excellent. We have go through and that i am certain that i am going to likely to read again once more down the road. I am just happy to explain how this is basically the very best publication i have go through within my own daily life and can be he best publication for actually.

-- ***Anika Kertzmann***