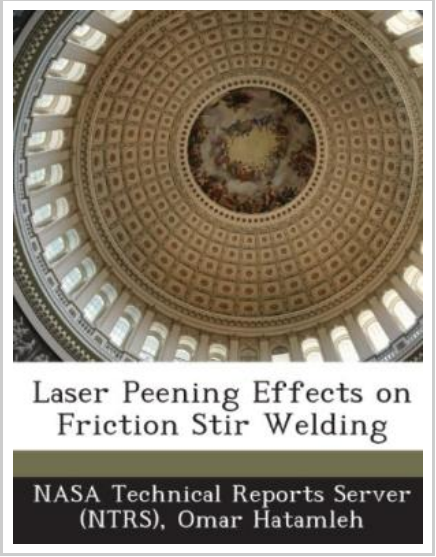


DOWNLOAD PDF

Laser Peening Effects on Friction Stir Welding (Paperback)

By Omar Hatamleh

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Friction Stir Welding (FSW) is a welding technique that uses frictional heating combined with forging pressure to produce high strength bonds. It is attractive for aerospace applications. Although residual stresses in FSW are generally lower when compared to conventional fusion welds, recent work has shown that significant tensile residual stresses can be present in the weld after fabrication. Therefore, laser shock peening was investigated as a means of moderating the tensile residual stresses produced during welding. This slide presentation reviews the effect of Laser Peening on the weld, in tensile strength, strain, surface roughness, microhardness, surface wear/friction, and fatigue crack growth rates. The study concluded that the laser peening process can result in considerable improvement to crack initiaion, propagation and mechanical properties in FSW.

READ ONLINE
[4.77 MB]

Reviews

This ebook might be worth a read, and superior to other. It is probably the most remarkable book i have got read. Its been designed in an remarkably straightforward way and it is merely soon after i finished reading this publication where really modified me, alter the way i really believe.

-- ***Alex Zieme DDS***

Thorough guide! Its this sort of excellent read. It is really simplified but unexpected situations in the 50 % in the book. You are going to like just how the blogger create this publication.

-- ***Prof. Lela Steuber***