

REFERENCES

- ASTM A370-9. *American Society for Testing and Materials*.
- A.Krishnaiah, U. Chakkingal, P. Venugopal. 2005. Applicability of the groove pressing technique for grain refinement in commercial purity copper Mater. Sci. Eng., A, 410/411 , pp. 337–340
- B. Gülença, K. Develib, N. Kahramanc, A. Durgutlu. 2005. Experimental study of the effect of hydrogen in argon as a shielding gas in MIG welding of austenitic stainless steel International Journal of Hydrogen Energy 30 1475 – 1481
- B. Podder, C. Mondal, K.R. Kumar, D.R. Yadav Mater. Des, 37 (2012), pp. 174–181
- Davis JR. 1994. ASM Specialty Hand Book. In. Stainless steel. Material Park, OH 44073: ASM International, The Material Information Society. p. 372
- D.H. Shin, J.J. Park, Y.S. Kim, K.T. Park. 2002. Constrained groove pressing and its application to grain refinement of aluminum Mater. Sci. Eng., A, 328, pp. 98–103
- E. Hosseini, M. Kazeminezhad, A. Mani, E. Rafizadeh. 2009. On the evolution of flow stress during constrained groove pressing of pure copper sheet Comput. Mater. Sci., 45, pp. 855–859
- E. Taban, E. Deleu, A. Dhooge, and E. Kaluc. 2008. Evaluation of Dissimilar Welds between Ferritic Stainless Steel Modified 12% Cr and Carbon Steel S355, Supplements to the welding Journal.
- Erdal Karadeniz, Ugur Ozsarac, Ceyhan Yildiz. 2007. The Effect of Process Parameters on Penetration in Gas Metal Arc Welding Processes Material and Design, 28, pp. 649–656
- G.F. Li, E.A. Charles, J. Congleton. 2001. Effect of post weld heat treatment on stress corrosion cracking of a low alloy steel to stainless steel transition weld Corros Sci, 43 (10), pp. 1963–1983
- G.Sierra, P.Peyre, F.Deschaux Beaume, D.Stuart and G.Fras, 2008. Galvanized steel to aluminium joining by laser and GTAW processes. Material Characterization 59 1705-1715
- Hakan Ates. 2007. Prediction of gas metal arc welding parameters based on artificial neural networks Volume 28, Issue 7, Pages 2015–2023
- Henderieckx, 2009 I. G. D. Charpy Test. Gietech BV.A Prediction of Welding Process Parameters by Prediction of Back-Bead Geometry Material Processing Technology, 108 , pp. 106–113

- H. Takuda, K. Mori, T. Masachika, E. Yamazaki, Y. Watanabe. 2003. Finite element analysis of the formability of an austenitic stainless-steel sheet in warm deep drawing J Mater Process Technol, 143–144, pp. 242–248
- H. Castro, C. Rodriguez, F.J. Belzunce, A.F. Canteli. 2003. Mechanical properties and corrosion behavior of stainless steel reinforcing bars J Mater Process Technol, 143–144 , pp. 134–137
- Howard B. Cary, Scott C. Helzer. 2005. Modern welding technology, Pearson/Prentice Hall, Technology & Engineering - 715 pages
- I.S. Kim et al.2003. Sensitivity analysis for process parameters in GMA welding processes using a factorial design method Int J Mach Tools Manu, 43, pp. 763–769
- I.S. Kim, J.S. Son, Prasad K.D.V. Yarlagadda. 2003. A study on the quality improvement of robotic GMA welding process Robot Cim-Int Manuf, 19 (6), pp. 567–572
- I.S. Kim, J.S. Son, I.G. Kim, J.Y. Kim, O.S. Kim. 2003. A Study on Relationship between Process Variables and Bead Penetration for Robotic CO₂ Arc Welding Material Processing Technology, 136 , pp. 139–145
- James Kelly. 2002. Specialty Alloy Welding, Director of Technology
- Jeff Nadman. 2001. Gas Metal Arc Welding Guidelines.
- J. Tusek, M. Suban. 2001. Dependence of melting rate in MIG/MAG welding on the type of shielding gas used, journal of Materials Processing Technology 119 185-192
- J. Tusek, M. Suban. 2000. Experimental research of the effect of hydrogen in argon as a shielding gas in arc welding of high alloy stainless steel Int J Hyd Ener, 25 (4), pp. 369–376
- Jyoti Prakash ,S.P.Tewari, Bipin Kumar Srivastava.2011. Shielding Gas for Welding of Aluminium Alloys by TIG/MIG Welding-A Review. Vol.1, Issue.2, pp-690-699
- K.Y. Benyounis, A.G. Olabi. 2008. Optimization of different welding processes using statistical and numerical approaches – a reference guide Adv Eng Software, 39 (6) , pp. 483–496
- K. Serope and S. Steven. 2006. Manufacturing Engineering and Technology 5th Edition in SI Unit. Singapore: Prentice Hall.
- K.C. Jang, D.G. Lee, J.M. Kuk, I.S. Kim. 2005. Welding and environmental test condition effect in weldability and strength of Al alloy J Mater Process Technol, 164-165 (15), pp. 1038–1045 May

- K. Peng, L. Su, L.L. Shaw, K.W. Qian. 2007. Grain refinement and crack prevention in constrained groove pressing of two-phase Cu–Zn alloys Scripta Mater., 56 , pp. flux on GTAW weldments Mater Design, 30 (2009), pp. 2404–2409
- Leigh Baughurst, and Grant Voznaks. 2009. Welding defects, causes and correction, Australian Bulk Handling Review
- Lenin N., Sivakumar M. and Vigneshkumar D. 2010. Process Parameter Optimization in ARC Welding of Dissimilar Metals, Thammasat Int. J. Sc. Tech., Vol. 15, No. 3.
- M.A. Wahab, M.J. Painter. 1997. Numerical models of gas metal arc welds using experimentally determined weld pool shapes as the representation of the welding heat source, Int J Pres Ves Piping, 73, pp. 153–159
- M.P. Nascimento, R.C. Souza, W.L. Pigatin, H.J.C. Voorwald. 2001. Effects of surface treatments on the fatigue strength of AISI 4340 aeronautical steel Int J Fatigue, 23, pp. 607–618
- M. Kazeminezhad, E. Hosseini. 2010. Optimum groove pressing die design to achieve desirable severely plastic deformed sheets Mater., pp. 94–103
- Marc Wouters, (2005). Hybrid Laser-MIG welding An investigation of geometrical considerations Marc. Department of Applied Physics and Mechanical Engineering Division of Manufacturing Systems Engineering ISSN: 1402-1757.
- Marion Calcagnotto, Dirk Ponge and Dierk Raabe. 2010. Effect of grain refinement to mon strength and toughness of dual-phase steels. Materials Science and Engineering A 527 (2010) 7832-7840.
- Nizamettin Kahraman, 2007. The influence of welding parameters on the joint strength of resistance spot-welded titanium sheets. Materials and Design 28 (2007) 420-427.
- N. Arivazhagan, Surendra Singh, Satya Prakash, G.M. Reddy . 2006. High temperature corrosion studies on friction welded dissimilar metals Mater Sci Eng: B J, 132, pp. 222–227
- P. A. Ibrahim, S. A. Mohamat, A. Amir, A. Ghilbi, 2012 .The Effect of Gas Metal Arc Welding (GMAW) processes on different welding parameters International Symposium on Robotics and Intelligent Sensors (IRIS 2012)
- P. Cavaliere, G. Campanile, F. Panella and A. Squillace, 2006. Effect of welding parameters on mechanical and microstructural properties of AA6056 joints produced by Friction Stir Welding. Journal of Materials Processing Technology 180, 263-270.
- P. Sathiya, S. Aravinda, P.M. Ajith, B. Arivazhagan and A. Noorul Haq, 2010. Microstructural Characteristics on Bead on Plate Welding of AISI 904 L Super

Austenitic Stainless Steel Using Gas Metal Arc Welding Process, Engineering, Science and Technology, Vol.2, No.6, pp. 189-199.

Prof. Dr. Muna Khethier Abbass, Khairia Salman Hassan and Dr. Hani Aziz Ameen. 2012. Influence of the butt joint design of TIG welding on corrosion resistance of low carbon steel ISSN: 2153-649X doi:10.5251/ajsir.2012.3.1.47.55

Robert W. Messler,Jr, 2004. Principles of Welding Process, Physics, Chemistry and Metallurgy. ISBN 0-471-25376-6.

Sacks and Bohnart, 2005. Welding Principles and Practices Third Edition. ISBN 0-07-825060-9

Serope Kalpakjian and Steven Schmid, 2006. Manufacturing Engineering and Technonolgy Fifth edition in SI units. ISBN 0-13-197639-7.

S.B.Lin, J.LSong, C.L.Fan, D.W. Zhang, 2009. Brazability of dissimilar metal tungsten inert gas butt welding-brazing aluminium alloy and stainless steel with Al-Cu filler metal. Material and Design 31 (2010) 2637-2642

T. Szwedzicki, 1997. Indention Hardness Testing of Rock. S0148-9062(97)—334-3

Theodore T. Allen, Waraporn Ittiwattana, Richard W. Richardson. 2001. A method for robust process design based on direct minimization of expected loss applied to arc welding J Manuf Sys, 20 (5) , pp. 329–348

U. Kölemen, S. Çelebi, Y. Yoshino, A. Öztürk. 2004. Mechanical properties of YBCO and YBCO + ZnO polycrystalline superconductors using Vickers hardness test at cryogenic temperatures Physica C: Superconductivity, Volume 406, Issues 1–2, Pages 20-26

Y.L. Xu, Z.B. Dong, Y.H. Wei. 2007. Marangoni convection and weld shape variation aluminum in A-TIG welding process Theor A Fr, 48, pp. 178–186

Y. Ruan a, X.M. Qiu , W.B. Gong , D.Q. Sun , Y.P. Li. 2012. Mechanical properties and microstructures of 6082-T6 joint welded by twin wire metal inert gas arc welding with the SiO₂ flux, Volume 35, Pages 20–24

Y.N. Petrov, V.G. Gavriljuk, H. Berns, F. Schmalt. 2006. Wear, 260 , pp. 687–691

Zhaohua Zhang, Xinqi Yang, Jialong Zhang, Guang Zhou, Xiaodong Xu, and Binlian Zou. 2011. Effect of welding parameters on microstructure and mechanical properties of friction stir spot welded 5052 aluminum alloy. Materials and Design 30, 4461-4470.