

Optimization on Spot Weld Parameters in Resistance Spot Welding Process on AISI 304

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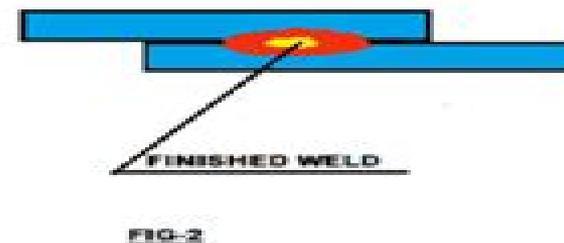
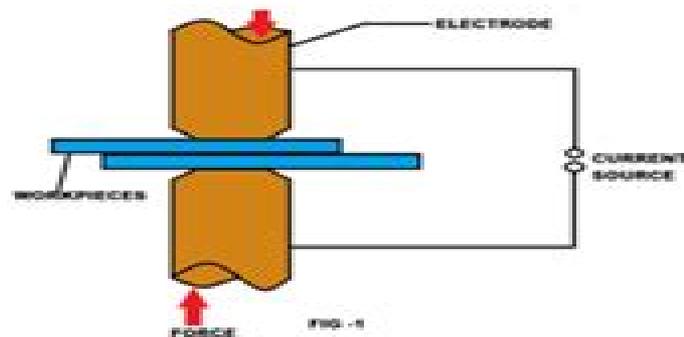
ABSTRACT

The spot welding procedure is used in a variety of industrial applications. The most critical elements influencing welding quality, productivity, and cost are the spot welding parameters. This research examines the effect of welding factors such as welding current and welding time on the strength of various welding joint designs. Resistance spot welding (RSW) is used in the automotive industry for manufacturing. This research focused on the optimization of process parameters for resistance spot welding (RSW), as well as the tensile testing and spot weld diameter. The goals of this analysis are to comprehend the physics of the process and to demonstrate the effect of electrical current, weld time, and material type on the resistance spot welding process.

Keywords-- AISI 304, Spot Welding, Workpieces

I. INTRODUCTION

Spot welding is one of the most used industrial operations. It is a sort of resistance welding in which heat is generated by using the resistance of the workpiece. Because pressure is applied throughout the welding process, resistance welding is also known as pressure welding. This procedure is distinct from others in that no flux or filler material is required for welding. In this procedure, two or more metals are bonded point to point to form the electrode tip shape. Workpieces are put between the electrodes depicted in Fig. 1, and high current is sent between them after applying pressure for a brief period of time. Parts are heated locally in all types of resistance welding. The material between the electrodes is forced together, melting and destroying the space between the sections. After the current is turned off, a "Nugget" of molten material forms after solidifying and establishing joints, as seen in Fig 2.



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Advances in Mechanical and Energy Technology Sanjay Yadav, Prashant Kumar Jain, Pavan Kumar Kankar, Yogesh Shrivastava, 2022-06-20 This book presents the select proceedings the 2nd International Conference on Mechanical and Energy Technologies ICMET 2021 The broad range of topics and issues covered are bulk deformation processes and sheet metal forming composites ceramics and polymers processing corrosion heat treatment microstructure and materials properties energy materials failure and fracture mechanics friction wear tribology and surface engineering functionally graded materials cellular materials low friction and corrosion resistive materials for energy applications lubricants and lubrication machinability and formability of materials material science and engineering and materials for energy storage This book will be useful for students researchers and professionals working in the areas of mechanical and industrial engineering energy technologies and allied fields

Transactions on Intelligent Welding Manufacturing Shanben Chen, Yuming Zhang, Zhili Feng, 2020-01-11 The primary aim of this volume is to provide researchers and engineers from both academic and industry with up to date coverage of new results in the field of robotic welding intelligent systems and automation The book is mainly based on papers selected from the 2019 International Workshop on Intelligentized Welding Manufacturing IWWM 2019 in USA The articles show that the intelligentized welding manufacturing IWM is becoming an inevitable trend with the intelligentized robotic welding as the key technology The volume is divided into four logical parts Intelligent Techniques for Robotic Welding Sensing of Arc Welding Processing Modeling and Intelligent Control of Welding Processing as well as Intelligent Control and its Applications in Engineering

Next Generation Materials and Processing Technologies Swarup Bag, Christ Prakash Paul, Mayuri Baruah, 2021-06-13 This book presents the select proceedings of Conference on Research and Developments in Material Processing Modelling and Characterization RDMPMC 2020 It highlights the new technologies developed in the generation of rational materials for various applications with tailored properties It covers fundamental research in emerging materials which includes biomaterials composites ceramics functionally graded materials energy materials thin film materials nanomaterials nuclear materials intermetallic high strength materials structural

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Handbook of Smart Materials, Technologies, and Devices Chaudhery Mustansar Hussain, Paolo Di Sia, 2022-11-09 This handbook brings together technical expertise conceptual background applications and societal aspects of Industry 4.0 the evolution of automation and data exchange in fabrication technologies materials processing and device manufacturing at both experimental and theoretical model scales The book assembles all the aspects of Industry 4.0 starting from the emergence of the concept to the consequences of its progression Drawing on expert contributors from around the world the volume details the technologies that sparked the fourth revolution and illustrates their characteristics potential and methods of use in the industrial and societal domains In addition important topics such as ethics privacy and security are considered in a reality where all data is shared and saved remotely The collection of contribution serve a very broad audience working in the fields of science and engineering chemical engineering materials science nanotechnology energy environment green chemistry sustainability electrical and electronic engineering solid state physics surface science aerosol technology chemistry colloid science device engineering and computer technology This handbook ideal reference libraries in universities and industrial institutions government and independent institutes individual research groups and scientists

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and process parameter optimization in laser beam welding using NSGA II Audience The book will interest researchers in academia and industry engineers in advanced manufacturing materials science surface science adhesion and coatings production engineering civil engineering and welding **Materials Engineering and Science** Omar S. Dahham,2023-05-05 Selected peer reviewed extended articles based on abstracts presented at the 5th International Conference on Materials Engineering and Science IConMEAS 2022 Aggregated Book *Innovative Product Design and Intelligent Manufacturing Systems* BBVL. Deepak,DRK Parhi,Pankaj C. Jena,2020-03-13 This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System ICIPDIMS 2019 held at the National Institute of Technology Rourkela India The book discusses latest methods and advanced tools from different areas of design and manufacturing technology The main topics covered include design methodologies industry 4 0 smart manufacturing and advances in robotics among others The contents of this book are useful for academics as well as professionals working in industrial design mechatronics robotics and automation **Advanced Materials - XV** Tahir Ikram,Mustasim Billah Bhatti,Muhammad Mansoor,Ejaz Ahmed Mukhtar,2018-09-05 International Symposium on Advanced Materials Islamabad Pakistan Selected peer reviewed papers from the 15th International Symposium on Advanced Materials ISAM 2017 October 16 20 2017 Islamabad Pakistan **The 3rd International Conference on Mechanical Engineering Research and Application** Femiana Gapsari,Putu Hadi Setyarini,Moch. Syamsul Ma'arif,Khairul Anam,2024-07-05 Selected peer reviewed extended articles based on abstracts presented at the 3rd International Conference on Mechanical Engineering Research and Application ICOMERA Aggregated Book Properties and Technological Features of Materials Vinayak Adimule,Rajendrachari Shashanka,2023-06-21 Special topic volume with invited peer reviewed papers only The 15th International Conference "Innovative Technologies for Joining Advanced Materials" (TIMA) Nicuşor-Alin Sîrbu,2025-12-18 Selected peer reviewed extended articles based on abstracts presented at The 15th International Conference Innovative Technologies for Joining Advanced Materials TIMA24 Aggregated Book **Advanced Materials, ICAMMP 2011** Jing Long Bu,Zheng Yi Jiang,Si Hai Jiao,2011-12-06 Selected peer reviewed papers from the Second International Conference on Advances in Materials and Manufacturing Processes ICAMMP 2011 December 16 18 2011 Guilin China International Journal of Engineering Research in Africa Vol. 58 Akii Okonigbon Akaehomen Ibadode,2022-01-11 In this volume of International Journal of Engineering Research in Africa are included peer reviewed manuscripts reflecting the research results in materials processing and corrosion protection fluid mechanics power engineering microgrid and power electronics wastewater and water treatment irrigation building materials and system for the automation product design The presented scientific articles can be appreciated by the majority of engineers academic teachers and students majoring in the fields of engineering science *Mechanical Engineering (5th edition)* Suwarno Suwarno,Abdel El Kharbachi,Mohammad Khoirul Effendi,Yohanes Yohanes,2023-05-29 Selected peer reviewed extended articles based on

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