

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

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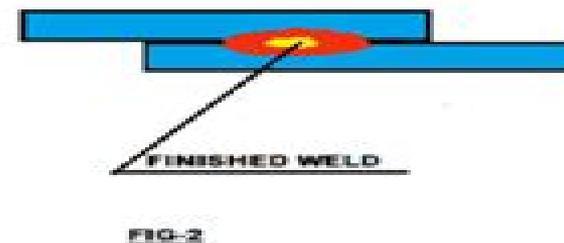
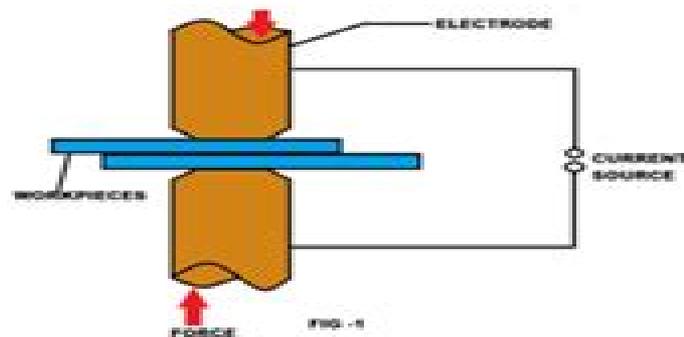
ABSTRACT

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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Rosyidi, Mohammad Osman Tokhi, 2025-05-30 This publication showcases the 7th Asia Pacific Conference on Manufacturing System and 6th International Manufacturing Engineering Conference iMEC APCOMS 2024 proceedings It emphasizes the UN Sustainable Development Goals in recent developments and significant challenges in manufacturing industry along with the emergence of intelligent manufacturing engineering and technology which are critical for adopting Industry 4.0 The book discusses both traditional and advanced approaches used in various intelligent manufacturing applications Readers can expect to gain a comprehensive understanding of current trends challenges solutions and mitigating factors from this publication

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 IWIWM 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

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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 contributions 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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Table of Contents Optimization Of Spot Welding Process Parameters For

1. Understanding the eBook Optimization Of Spot Welding Process Parameters For
 - The Rise of Digital Reading Optimization Of Spot Welding Process Parameters For
 - Advantages of eBooks Over Traditional Books
2. Identifying Optimization Of Spot Welding Process Parameters For
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Optimization Of Spot Welding Process Parameters For
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optimization Of Spot Welding Process Parameters For
 - Personalized Recommendations
 - Optimization Of Spot Welding Process Parameters For User Reviews and Ratings

- Optimization Of Spot Welding Process Parameters For and Bestseller Lists
- 5. Accessing Optimization Of Spot Welding Process Parameters For Free and Paid eBooks
 - Optimization Of Spot Welding Process Parameters For Public Domain eBooks
 - Optimization Of Spot Welding Process Parameters For eBook Subscription Services
 - Optimization Of Spot Welding Process Parameters For Budget-Friendly Options
- 6. Navigating Optimization Of Spot Welding Process Parameters For eBook Formats
 - ePub, PDF, MOBI, and More
 - Optimization Of Spot Welding Process Parameters For Compatibility with Devices
 - Optimization Of Spot Welding Process Parameters For Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Optimization Of Spot Welding Process Parameters For
 - Highlighting and Note-Taking Optimization Of Spot Welding Process Parameters For
 - Interactive Elements Optimization Of Spot Welding Process Parameters For
- 8. Staying Engaged with Optimization Of Spot Welding Process Parameters For
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Optimization Of Spot Welding Process Parameters For
- 9. Balancing eBooks and Physical Books Optimization Of Spot Welding Process Parameters For
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Optimization Of Spot Welding Process Parameters For
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Optimization Of Spot Welding Process Parameters For
 - Setting Reading Goals Optimization Of Spot Welding Process Parameters For
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Optimization Of Spot Welding Process Parameters For
 - Fact-Checking eBook Content of Optimization Of Spot Welding Process Parameters For
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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