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Titolo	Solid-State Welding: Friction and Friction Stir Welding Processes // by Esther Titilayo Akinlabi, Rasheedat Modupe Mahamood
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Soggetti	Manufactures Metals Light construction Steel construction Lightweight construction Engineering—Materials Manufacturing, Machines, Tools, Processes Metallic Materials Light Construction, Steel Construction, Timber Construction Materials Engineering
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to Friction Welding, Friction Stir Welding and Friction Stir Processing -- Friction Welding -- Friction Stir Welding -- Friction Stir Processing -- Case Study - Friction Stir Welding of Copper and Aluminum -- Case Study - Friction Stir Processing of Pure Aluminum -- Future Research Direction in Friction Welding, Friction Stir Welding and Friction Stir Processing -- .
Sommario/riassunto	This book presents critical information on the principles and operation of friction welding, friction stir welding, and friction stir processing enhanced with many robust illustrations. It explains the application of these technologies and the current research efforts in the field. The authors explain in detail the advantages offered by these welding

processes, in particular their ability to join dissimilar materials not possible to weld in the past. Written for graduate students, researchers, and industrial professionals, the book reinforces concepts presented with case studies on the experimental analysis of welding the dissimilar materials of copper and aluminum, and on friction stir processing. Outlines the complete state of the technology on the solid state welding processes-friction and friction stir welding processes; Reinforces concepts and applications described with case studies; Includes recent bibliography of the field of research and discussion of future research directions.

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