



## **Trends in Welding Research**

Editors Stan A. David, Tarasankar DebRoy, John N. Dupont, Toshihko Koseki, and Herschel B. Smartt

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The Trends conference attracts the world's leading welding researchers. Topics covered in this volume include friction stir welding, sensing, control and automation, microstructure and properties, welding processes, procedures and consumables, weldability, modeling, phase transformations, residual stress and distortion, physical processes in welding, and properties and structural integrity of weldments.

#### Contents:

Keynote addresses (7 papers) \* Friction Stir Welding Processing (14 papers) \* Friction Stir Welding Microstructure and Properties (10 papers) \* Friction Stir Welding Process Optimization (3 papers) \* Friction Stir Welding Modeling (4 papers) \* Physical Processes in Welding (9 papers) \* Modeling (8 papers) \* Phase Transformations (7 papers) \* Other Experimental/Modeling Investigations (6 papers) \* Weldability (2 papers) \* Sensing, Control and Automation (8 papers) \* Microstructure (11 papers) \* Properties and Structural Integrity of Weldments (8 papers) \* Welding Processes, Procedures and Consumables (14 papers) \* Residual Stress and Distortion (4 papers) \* Poster Session (5 papers) \* Author Index



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