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KEY WORDS

Please number all the appropriate in order (1, 2, .. up to 5) based on the importance to help guide the selection for reviewers.

Processes

Arc Processes

- SMAW
- GTAW
- GMAW
- FCAW
- SAW
- PAW
- ESW
- Stud Welding
- Arc Power Sources
- Filler Metals
- Consumables and Equipment

Resistance Processes

- Spot
- Seam
- Projection
- Flash
- Upset
- Percussion
- High-Frequency
- Consumables and Equipment

High Energy Beam Processes

- LBW
- EBW
- Equipment

Solid-State Processes

- Friction Welding
- Friction Stir Welding
- Ultrasonic Welding
- Explosive Welding
- Diffusion/HIP Welding
- Equipment

Additive and Surfacing Processes

- Additive Manufacturing
- Surfacing
- Cladding
- Hardfacing
- Power Sources
- Consumables and Equipment

Other Process Topics

- Arc Physics
- Heat Transfer
- Thermal/Cold Spray Processes
- Fluid Flow
- Hybrid Processes
- Underwater Welding
- Maintenance and Repair Welding
- Cutting Processes
- Soldering
- Brazing
- Braze Welding
- Adhesive Bonding

Automation, Sensing and Control

- Automation
- Robotics
- Process Monitoring/Control
- Sensors

Materials

- Al Alloys
- Cu Alloys
- Mg Alloys
- Ni Alloys
- Sn Alloys
- Ti Alloys
- Refractory Alloys



KEY WORDS

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Materials (Cont'd)

- Carbon and Low Alloy Steels
- High Alloy Steels
- Coated Steels
- High-Strength Steels
- Ferritic/Martensitic Steels
- Stainless and Heat-Resisting Steels
- Cast Irons
- Polymers
- Ceramics
- Ceramic Matrix Composites
- Polymer Matrix Composites
- Metal Matrix Composites
- Intermetallics
- Advanced Materials

Modeling and Simulation

- Numerical Analysis
- Weld Process Simulation

Other Topics

- NDE
- Corrosion
- Residual Stress/Distortion
- Mechanical Properties
- Fracture
- Fatigue
- Weld Design
- Weldability

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