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Nota di contenuto	Intro -- Welding Technologies -- Preface -- Table of Contents -- Effect of Ferrite/Austenite Phase Transformation on 475 °C Embrittlement in Duplex Stainless Steel Weld -- Effect of High-Temperature Tempering on Microstructure and Mechanical Strength of Laser-Welded Joints between Medium-Mn Stainless Steel and High-Strength Carbon Steel -- Experience in the Fabrication of Tube Grade 7CrMoVTiB10-10 with Inconel 625 Weld Overlay for Use in Steam Superheaters Exposed to Highly Corrosive Environments -- Microstructure and Mechanical Properties of A6061/GA980 Resistance Spot Weld -- High Energy Density Welding of IN792 Ds Superalloy -- Effect of Cold Rolling on Bonding Interface of C1020/A1050 Butt Joints by Friction Stir Welding -- High-Speed Laser Beam Welding of Magnesium Alloy AZ31 for Enhancing the Mechanical Properties -- Friction Stir Welding of Various Aluminium Alloys to Titanium -- Solute Enrichment in the Fusion Zone during Resistance Spot Welding of a Third Generation Advanced High Strength Steel -- Premium Rail Flash-Butt Welding Process Window Based on Phase Transformations -- Resistance Spot Welding of QP Stainless Steels: Role of Heat Treatment and Microstructure on Joint Strength -- Phase Transformations in Layered Composites Based on Zr, Nb, Ta or Ti Sheet Explosively Welded to Stainless Steel Plate --

Evaluation on Joint Performances of Advanced Multi-Material Dissimilar Lap Joints -- In Situ TEM Observation of the Ultrasonic Bonding Process -- Evaluation of Simulated Heat Affected Zone of Molybdenum- and Niobium Alloyed Ultra-High-Strength Steels -- Joining Aluminum Alloy and Steel by Friction Stir Forming from Steel Side -- Parallel Computing of Thermo-Fluid Modeling Related to the FSW Process -- Gleeble Simulation of HAZ in S690QL Steel: Microstructural and Mechanical Properties -- Keyword Index -- Author Index.

Sommario/riassunto

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