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Special Issue Reprint

Advanced Welding Technology and Its Applications

Edited by: Radoslaw Winiczenko

This Special Issue, entitled "Advanced Welding Technology and Its Applications", highlights the latest advances in various welding processes across the field, including solid-state welding, electron beam welding, laser welding, magnetic arc welding, the ultrasonic welding process, thermal spraying, and experimental processes. Advanced welding technology are fundamental in advanced engineering materials to expand their applications. Moreover, they provide extraordinary benefits such as component cost reduction, increased productivity, and unique joint properties. This Special Issue provided an overview of various welding processes used to join light alloys, new composites, tungsten heavy alloys, and ceramics. The influence of various process parameters, structural morphology, and changes in mechanical properties have been important issues discussed in the publications. The Special Issue included current problems related to joining materials using advanced techniques, as well as innovative solutions in direct industrial applications.

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