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WELDING OF DISSIMILAR MATERIALS

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Actually, there is an increasing industry need to join dissimilar materials. Hybrid parts made by welding of dissimilar materials Such as metal to metal, polymer to polymer, metal to polymer, and metal to ceramic are nowadays in high demand because the objective is to reduce the total weight and maintaining essential physical properties. For these reasons, research works on welding of dissimilar materials is very attractive and many scientific papers have been published in this research field. The objective of this paper is to review the metallurgical aspects of the main published works on dissimilar welded materials by presenting the main joining methods used, problems faced and the future research in this area.

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