

عنوان مقاله:

welding characteristics of ultrahigh strength steel in annealed and quench-tempered conditions

محل انتشار:

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خلاصه مقاله:

in this research the welding characteristics a new UHSLA steel 35NiCrMoV123 have been studied in two general conditions annealed & quench -tempered carbon equivalent value of 35NiCrMoV123 steel is near 0.9 which classifies it as a very difficult to weld steel the effects of welding heat treatment cycle preheat interpass post heat on metallurgical and mechanical properties of weldments have been investigated by tensile impact toughness and hardness tests as well as optical microscopy observations it has been observed that by employing high temperature . stress relief 600 C welding could be performed in annealed condition success fully

کلمات کلیدی:

35NiCrMoV123,Welding,ultrahigh strength steel ,cold cracking

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