

E. Hardness Changes on a Pass-by-Pass Basis in ASTM A36 GMA Welds
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A series of welds were fabricated in ASTM A36 steel. The first pass went the entire length of the plate and each subsequent pass was indented approximately 25 millimeters. Hardness maps were made on each pass in the weld. Corresponding points were noted and measured to determine the translation from one set of data (prior pass) to the other (subsequent pass). This translation allowed the hardness value in a prior pass to be subtracted from an identical point in the subsequent pass. Thus the changes in hardness that results from the subsequent pass were determined.