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Crystallographic Analysis of Martensitic Transformation in CuSn Alloy

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**Abstract:** In this study, the Kajiwara model has been applied to Cu-14.8at.%Sn alloy with good agreement with experimental results. For this alloy, the austenite phase has a body centered cubic (bcc) lattice and the martensite phase has a monoclinic 9R superlattice. Using the lattice parameters of both phases, the calculated habit plane indices, magnitude of the lattice invariant shear and orientation relationships, have been compared with the observed results for this alloy.



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