

Abstract Submitted
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Vanadium diffusion in ferrite SUNGHO KIM, JEFFREY HOUZE,
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Vanadium is a very important additive in high strength steel alloys. Small amount of
vanadium addition strengthens the steel alloys. As a first step to study the effect of
vanadium addition in steel alloys we calculated the diffusion path and the migration
energy of vanadium atom in ferrite crystal using first principles calculations.

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