UCRL-16161 Addendum

University of California

Ernest O. Lawrence Radiation Laboratory

REPLY TO "DISCUSSION OF FACTORS DETERMINING TWINNING IN MARTENSITES"

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Reply to "Discussion of factors determining twinning in martensites"*

The two points we tried to made in our letter[1] were the following: firstly, that in a *given alloy series* with increasing solute content and corresponding decrease in *Ms* temperature the tendency will be for martensite to twin as is found for Fe–C and other alloys besides Fe–Ni and Fe–Ni–C. We are not implying that an absolute low *Ms* temperature is a prerequisite for twinning but rather that a relatively low *Ms* temperature favors twinning. Secondly, it does not seem feasible to correlate the stacking fault energy of austenites to the deformation behaviour of the transformed martensite, where the structure is b.c.c. or b.c.t.

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References

1. O. Johari and G. Thomas, *Acta Met.* **13,** 1211 (1965).

* Received January 12, 1966.