Micrographs from SEM taken at 5,000 and 10,000 times magnification were used for volume fraction measurements using the point counting method. The results are tabulated in Table II. The hardness and volume fraction measurements suggest no significant carbon movement in γ -iron under the temperature gradient. Shewmon² reported earlier that in γ -iron, carbon movement is negligible under the temperature gradient up to about 950 °C. The present work is not only consistent with his report, but also it shows that there is no major redistribution of carbon throughout the entire austenite region.

It is also notable that we observed a thin region slightly depleted of carbon right below and along the eutectoid temperature line. No detailed analysis in this

region was carried out in this work; for that, a longer annealing period seems to be required.

It is concluded that for a plain carbon steel, a temperature gradient of up to 2000 °C/cm for 80 min would not allow the significant carbon redistribution in the entire austenite steel region.

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Correction to *Metall. Trans. A*, 1980, vol. 11A

Fabrication of Stainless Steel Foil Utilizing Chromized Steel Strip, by Edward A. Loria

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The chromized coating on the cross section of 0.04 in. thick chromized steel in Fig. 1 was deleted in error. The correct Fig. 1 is shown here.

Fig. 1—Cross section of 0.04 in. thick chromized steel strip. Nitral etch. Magnification 70 times.