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Hysteresis in Zinc Crystals

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GROWTH CONDITIONS FOR ZINC CRYSTALS

J. S. KELLOUGH

Previous work by Schilling¹ showed that additions of Cadmium were necessary to produce conditions favorable to growth of single crystals. The present work has to do with the effect of other impurities on growth conditions. At present it has been found, by using zinc with somewhat less iron impurity than Schilling's zinc but with the same addition of Cadmium, that the region favorable to growth is more like the original one of Hoyem and Tyndall and considerably different from Schilling's region.

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HYSTERESIS IN ZINC CRYSTALS

E. P. T. TYNDALL

Hanson found that crystals under bending stress showed a small amount of "elastic hysteresis." It appears now that this hysteresis is characteristic of the apparatus used by Hanson, since a slight modification abolishes this hysteresis.

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WETTING OF HOT METAL FILAMENTS BY MOLTEN METALS

M. ALDEN COUNTRYMAN

In making thin films of metal by evaporation it is often convenient to evaporate the metal from an incandescent metal filament. In order that evaporation may take place properly the molten metal being evaporated must wet the incandescent filament. The work previously reported on the wetting of metal filaments

¹ Physics, 5: 1(1934) and 6: 111(1935).