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Resistivity of Mosaic Zinc Crystals

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plete removal from the metal is not known. It is probably of the order of 25 volts. By measuring the energies of photoelectrons produced by known photons the energy levels can be definitely placed. The experiment suggested is a modification of the one recently described by Kretschman (Phys. Rev. Vol. 43, p. 417).

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MOSAIC ZINC CRYSTALS

E. P. T. TYNDALL AND H. K. SCHILLING

Crystals of a distinctly mosaic type (that is, a group of polycrystals with almost identical orientations) have been grown with great frequency during the last two years. Some types of these will be described and their bearing on the growth of single crystals by various methods will be discussed.

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RESISTIVITY OF MOSAIC ZINC CRYSTALS

W. J. POPPY

Zinc mosaics depart from the resistivity-orientation relation characteristics of true single crystals. They show marked rises in resistivity after a strain with a decline to the original, or lower values, on annealing.

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ELASTICITY OF ZINC CRYSTALS

A. W. HANSON

Improvements have been made in the apparatus for the determination of the elastic constants so that the results on different specimens are in far better agreement than when previously reported (Iowa Academy, 1932). Incomplete tests seem to show that crystals with distinct mosaic structure differ only slightly, if at all, in elastic properties from true single crystals.

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