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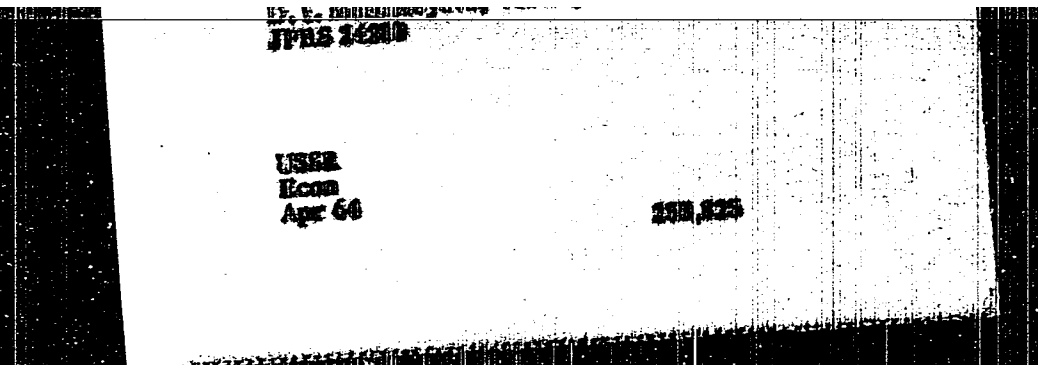
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The physico-chemical properties of metallic Er of 99.35% purity were determined. The hardness of cast Er is 130 to 135 kg/sq mm; the limit of proportionality is 19 kg/sq mm; and the ultimate strength under tension is 29 kg/sq mm. Contraction under compression is 22%. Melting temperature is 1550°C, the boiling point 2650°, and the heat of evaporation is 64.75 kcal/g atom. The hexagonal structure (with parameters $a = 3.55 \text{ \AA}$, $c = 5.58 \text{ \AA}$, and $c/a = 1.57$) was determined by X-ray analysis. The density is 9.08 g/sq cm. Er alloys, to 5%, with Al, Mg, Fe, and Ti, but not with Ta. All alloys are 2-phase mix- (Metallurgy--Structural, TT, v. 3, no. 6) (over)

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