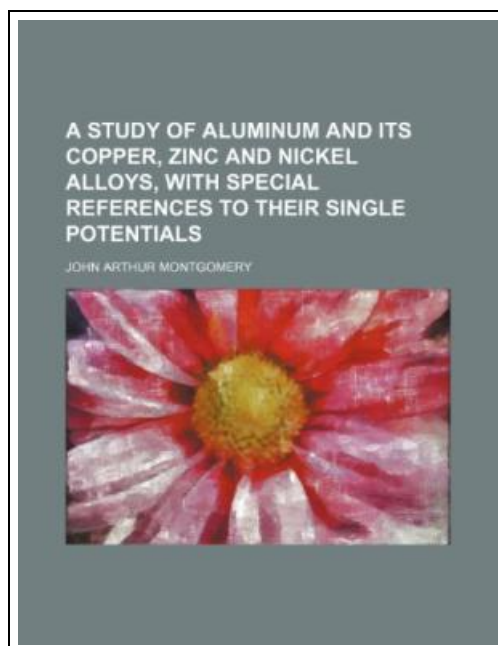


A Study of Aluminum and Its Copper, Zinc and Nickel Alloys, with Special References to Their Single Potentials



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A STUDY OF ALUMINUM AND ITS COPPER, ZINC AND NICKEL ALLOYS, WITH SPECIAL REFERENCES TO THEIR SINGLE POTENTIALS



Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1919 Excerpt: .up to 33\$ of zinc are used primarily for oasting. Up to 15\$ of zino these alloys are quite malleable. The 15\$ chill cast alloy has an elastic limit of 16,000 pounds per square inch and a tensile strength of 22,330 pounds. Those with higher percentages of zinc are rigid and break sharp. Richards claims that to obtain good Al-Zn alloys a good grade of zinc should be used. A poor grade of zino is often the cause of poor alloys. Richards gives the mechanical values for aluminum of 99 to 99.5\$ purity as tabulated in Table XX. 1. Page 38. 2. J. W. Richards-Iron Age, Aug. 13, 1903. Castings Sheet Wire Elastic limit per square inch 8,600 12,500--25,000 16,000--33,000 14,000--23,000 Table XI Ultimate strength per square inch 14,000-18,000 24,000-40,000 26,000-55,000 28,000-40,000 fo Reduction in area 15 20-30 40-60 30-40 An alloy of two-thirds aluminum and one-third zinc has been described by Durand1 as being about the best alloy of this series, having physical properties almost equal to those of good oast iron. He says that the alloy dces not oxidize readily, takes a good finish and fills the mould well. He also says that this alloy has a tensile strength of 22,000 pounds per square inch and a specific gravity of 3.30. Bauer and Vogel, by means of the cold ball test, found that the hardness of this Al-Zn series rises with increased amounts of zinc, reaching a maximum at 30\$ of zinc, and then...



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