

## Engineering and Science Series Volume 1-25



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***(Prof. Gerardo Grimes III)***

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Not Avail, 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. 1911 Excerpt: . phase diagram of the iron-cobalt system has been determined by Ruer and Kaneko<sup>25</sup> and Masumoto<sup>21</sup> and indicates that, at room temperature, the system consists of an unbroken series of solid solutions. In this study sections of typical alloys over the entire range were prepared and photographed. Some photomicrographs are shown in Figure 18. All specimens have a solid solution structure. There is no evidence of a compound in the middle of the series where anomalous values of electrical resistance were obtained. 18. X-ray Crystal Structure and Density. The x-ray crystal structure was determined with a General Electric diffraction apparatus. Three typical x-ray patterns are shown in Figure 19. The type of structure and parameter are given for each alloy of the series in Table X. The addition of cobalt to iron has no measurable effect upon the body-centered lattice of a iron until one-third of the lattice points have been occupied by cobalt. With higher percentages of cobalt there is a gradual contraction in the lattice, but not until two-thirds of the lattice points have been occupied by cobalt atoms does the structure change to the face-centered cubic arrangement characteristic of alloys with a high percentage of cobalt. No discontinuous change in the crystal structure was found in the region in which anomalous values of electrical conductivity are obtained. The results obtained in this investigation are in general agreement with the published data of Andrews<sup>1</sup> on the ranges of stable crystal types in the...



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