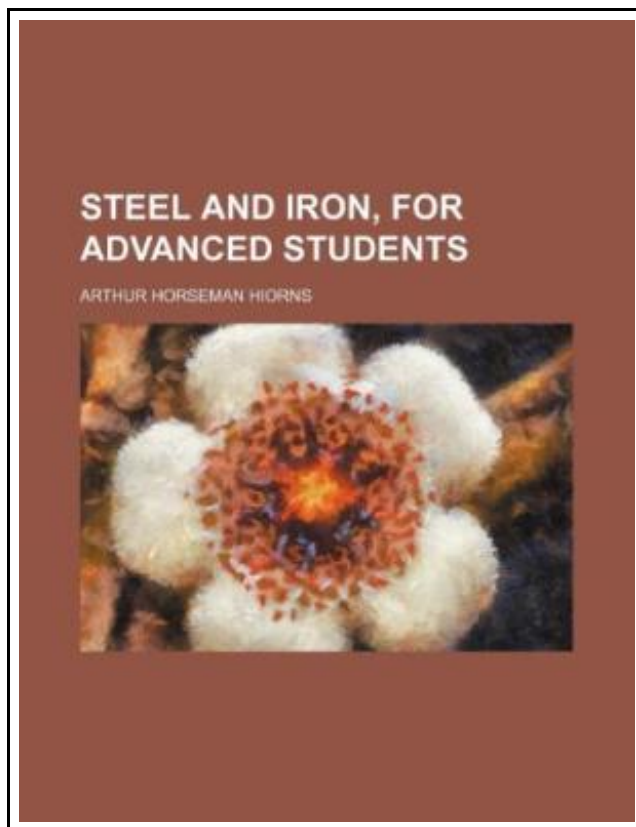


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1903 Excerpt: .seems to be to lower the number of carbon atoms in the molecule of derivatives, and to increase the proportion of carbon escaping as gaseous paraffins; (3) from the percentage of carbon in the steels examined, the annealed samples, under 0.89 per cent. of 1 Howe s Steel, p. 6. Jour. Iron and Steel Inst., No. 2, 1899. total carbon, must consist of pearlite with ferrite, while those above 1 per cent. consist of pearlite, with quantities of cementite, increasing with the carbon. The results obtained appear to indicate that there are several different carbides existing in steels, and that these carbides have different molecular weights. According to this view, the formula Fe_3C is merely an empirical one. The hypothesis offered by Campbell makes the fundamental assumption that carbon forms with iron a series of compounds that might be termed ferro-carbons on account of their similarity to hydro-carbons. This series of ferroc carbons has the empirical formula C Fe_3 . In annealed steels containing less than 0.89 per cent. of carbon we should find the eutectic pearlite to consist of alternate laminae of C Fe_3 and ferrite Fe_{21} . The latter may be regarded as iron of crystallisation, the ferro-carbons occurring in pearlite having a higher molecular weight than those occurring as free cementite. When steel is heated above a certain temperature the ferro-carbons dissolve in the iron of crystallisation forming martensite, which may be represented by the formula $\text{C Fe}_8 + \text{Fe}_{21}$, or, according to Arnold,...

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