



Vanadium, Its Services in Automobile Manufacture (Classic Reprint) (Paperback)

By J Kent Smith

Forgotten Books, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Vanadium, Its Services in Automobile Manufacture Steel is a very complex body; to paraphrase a satirical remark of an eminent scientist, it is so complex that even the youngest may not form a fixed opinion regarding it. Everybody will agree that during the past two decades the demands on steel applied to special purposes have changed greatly, and steels which satisfactorily met the engineering requirements of twenty years ago are unsuitable to-day. Then if a steel stretched nicely - had good elongation - it was supposed to be all right, provided it showed the required tensile strength. But although steel may have good static qualities, that is, it may have a high tensile strength, elongate greatly and bend well under a steady load, when it is subjected to repeated work, undergoing vibration accompanied by shocks, big or little, and strains which may perhaps be in the nature of alternating bends, it must possess other qualities to enable it to meet such entirely different conditions. If we take a steel the elastic limit of which is represented by the figure...



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