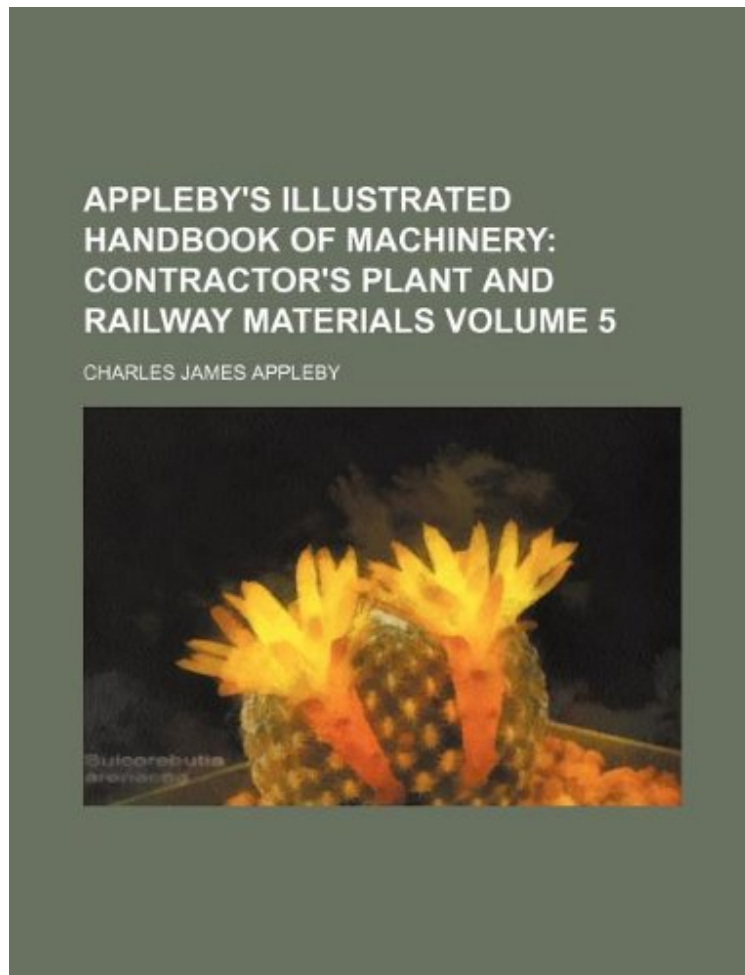


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Appleby's Illustrated Handbook of Machinery Volume 5

Charles James Appleby

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Charles James Appleby : Appleby's Illustrated Handbook of Machinery Volume 5 before purchasing it in order to gage whether or not it would be worth my time, and all praised Appleby's Illustrated Handbook of Machinery Volume 5:

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: ...and the rock between the grooves is shattered by dynamite for removal by the cable conveyor. Cable Conveyor.--The excavated material is removed from the trench by a steel wire rope way supported by towers 600 feet apart, the length between anchorages being 800 feet. The cable way is two inches diameter, and is central over the line of excavation, with trolleys from which the skips are suspended, and raised or lowered at any desired point in the length of traverse. The skips are of 2h

cubic yards capacity, and the materials raised from the trench are dumped into steel cars for hauling away; in this case the stone is used in railway construction. Hoisting machinery.--The engines and hoisting appliances are fixed in one of the towers and are equal to a load of 10 tons; all operations are controlled by one man when working at any point in the length of the traverse or at any depth up to 180 feet. SAND AND MUD SCOOPS have been largely used in the United States of America and--to some extent--in this country for rapidly and economically excavating sand and soil of various consistencies. The following description of excavators used in the dock extensions at Keyham is abstracted from a paper read before the Institution of Mechanical Engineers by Mr. Whately Elliott:--The mud is excavated by means of mud scoops worked to and fro over the site by hauling engines, which are placed on each side of the ground. Those on the outer side are of forty horse-power, and are fixed at the end of an elevated stage, from which the mud is discharged into barges and conveyed by them to sea. Those on the inside are of twenty horse-power and are fixed to travelling frames, and can thus be moved to lead the scoop to such part of the mud as may be required. The scoop hauled forward over ...