

contents include an envelope for a cone a frustrum of a cone a can top or deck flange a pattern for or an envelope for a frustrum or a cone a tapering oval article to be in four sections a tapering oval article to be in two sections a tapering oval article a tapering oval or oblong article the sides to be straight with quarter circle corners to be in two section et cetera many vintage books such as this are increasingly scarce and expensive we are republishing this volume now in an affordable modern edition complete with a specially commissioned new introduction on metalworking first published in 1865 excerpt from the influence of copper on the rate of solution of iron in acids dissertation five melts of 25 grams each containing iron and copper respectively were prepared and a pure iron melt of 40 grams through the kindness of director stratton the fusions were carried out at the bureau of standards laboratory in washington about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant this historic book may have numerous typos and missing text purchasers can usually download a free scanned copy of the original book without typos from the publisher not indexed not illustrated 1921 edition excerpt ft diameter lest the blast fall properly to penetrate to the center and maintain intense combustion there the slope or angle of the bosh wall must be such as to give proper support to the charge which rests upon it and yet allow the solid coke to slip down an angle of 80 is preferred the height is limited to the height of the smelting zone these conditions limit the diameter of the bosh to 22 ft from the top of the bosh the stack wall must decrease in diameter to the throat to give room for the descending charge to swell by reactions that occur in its downward progress this leaves at the throat a diameter suitable for the proper distribution of charge furnaces have been built higher than 100 ft but such height has been found to be excessive especially for fine ores and the best practice calls for 90 ft or less gas cleaning the top gas coming away from a blast furnace especially when smelting fine ore carries much dust caused by the agitation of the blast some of this is settled out in the dust catcher but the gas still remains quite dusty when the gas is subsequently burned at the stoves the dust settles in the checker work and at the boilers it attaches itself to the stoves if the gas is cleaned it burns more efficiently and moreover it can then be used for driving a gas engine blower plant fig 157 gives the views of a scrubber plant for gas cleaning for stoves and boilers for two furnaces of the figure w is a front elevation x a side elevation y a separate elevation of the dust catcher and z a plan view of one of the scrubbers to show the arrangement of the water sprays the gases from the dust catchers of the two furnaces are united in the 7 ft gas main a to go to either of two dust catchers b this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works

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