AUTOGENOUS WELDING AND CUTTING

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649471164

Autogenous Welding and Cutting by Theodore Kautny & James F. Whiteford

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THEODORE KAUTNY & JAMES F. WHITEFORD

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McGraw-Hill Book Company

Publishers of Books for

Electrical World The Engineering and Mining Journal
Engineering Record Engineering News
Railway Age Gazette American Machinist
Signal Engineer American Engineer
Electric Railway Journal Coal Age
Metallurgical and Chemical Engineering Power

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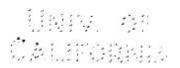
THEODORE KAUTNY, ING.

TRANSLATED BY THE AUTHOR

AND

JAMES F. WHITEFORD MEMBER AM. SOC. MECH. ENGRS.

FIRST EDITION



McGRAW-HILL BOOK COMPANY, Inc. 239 WEST 39TH STREET, NEW YORK 6 BOUVERIE STREET, LONDON, E.C. 1915

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TO A MAINTAIN OF



AUTHOR'S PREFACE

THE literature of autogenous welding technique has been enriched lately in many valuable ways, and there exist a large number of works which cover this field.

Autogenous welding is a process intended for general introduction both in small workshops and in large factories. The range of welding technique is so wide that a thorough study of the process requires extensive research which makes great demands on the time of the reader.

A pocket book of brief compass will be welcome to the works engineer, to the works foreman, and to the practical autogenous welder; in which the most important elements of the process are placed together in an easily available manner, and which shall be a faithful companion and a reliable adviser in connection with the various questions arising in practice.

The object of the present work is to meet these requirements and I pass it on to the general public in the hope that it will be favorably received and fulfil its task.

THEO. KAUTNY

Nürnberg, April, 1914.

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COLLABORATOR'S PREFACE

The rapid extension of the application of autogenous welding by means of the oxyacetylene flame, which followed closely upon the perfecting of apparatus for the commercial production of oxygen and acetylene, has by no means exhausted the field for this process of metal working.

New developments are being continually recorded and it would be exceedingly difficult to establish any definite limits in the application of the process.

As the development of the art of autogenous welding is being advanced in other countries simultaneously with those of English speaking people it is important for provision to be made so that students and others interested in the subject may become familiar with the methods and practices in use elsewhere.

In Germany, the industrial applications of the process are of such importance and the value of detailed knowledge is so fully appreciated, that autogenous welding schools are now conducted in conjunction with the Technical High Schools in various centers.

As the author has been closely associated with the establishment of these schools the text in the following pages is of particular importance.

Effort has been made to avoid the use of such technical terms as may confuse the individual welder, and to give such information and instruction as will enable him to more thoroughly understand and appre-