

**AIDS TO ENGINEERS'
EXAMINATIONS. PREPARED FOR
APPLICANTS OF ALL GRADES,
WITH QUESTIONS AND ANSWERS**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649042241

Aids to Engineers' Examinations. Prepared for Applicants of All Grades, with Questions and Answers by N. Hawkins

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

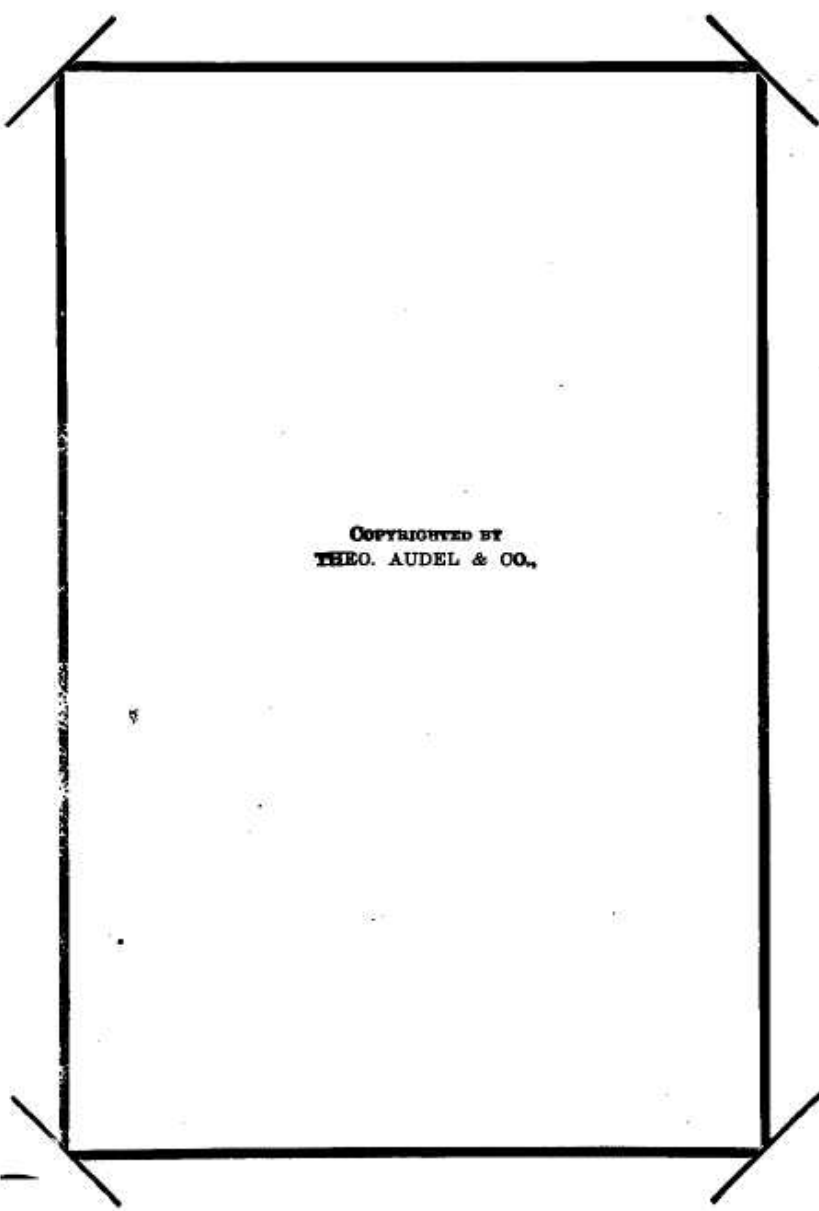
www.triestepublishing.com

N. HAWKINS

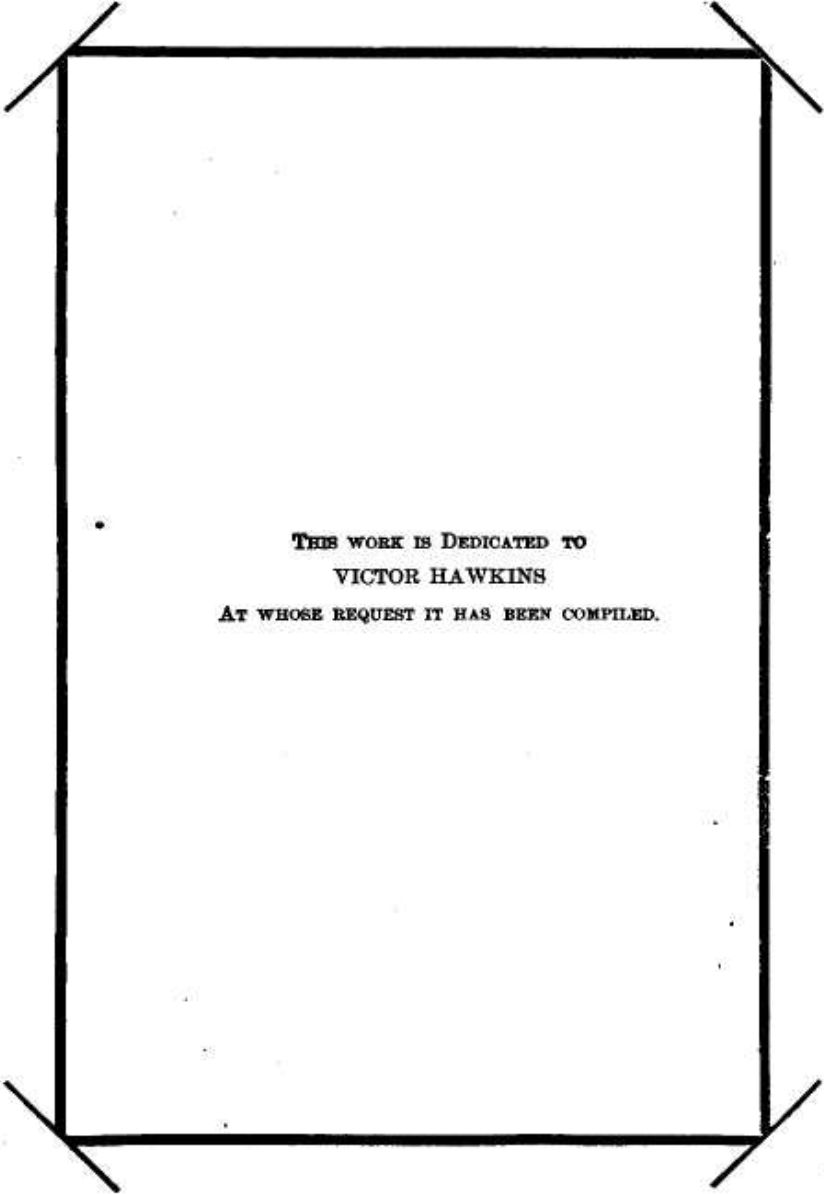
**AIDS TO ENGINEERS'
EXAMINATIONS. PREPARED FOR
APPLICANTS OF ALL GRADES,
WITH QUESTIONS AND ANSWERS**

AIDS
TO
Engineers' Examinations
WITH
QUESTIONS AND ANSWERS.

~~_____~~ the
~~_____~~ Library



**COPYRIGHTED BY
THEO. AUDEL & CO.,**



THIS WORK IS DEDICATED TO
VICTOR HAWKINS
AT WHOSE REQUEST IT HAS BEEN COMPILED.



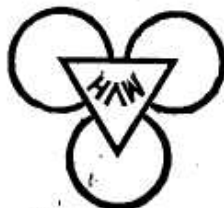
WASHINGTON MULLIN.

See page 203.

AIDS
TO
ENGINEERS' EXAMINATIONS.

PREPARED FOR
APPLICANTS OF ALL GRADES,
WITH
QUESTIONS AND ANSWERS.

*A Summary of the Principles and Practice
of Steam Engineering.*



BY N. HAWKINS, M. E.,

*Author: New Catechism of the Steam Engine; Hand Book
of Calculations for Engineers; Instructions for the
Boiler Room; New Catechism of Electricity, etc.*

NEW YORK:
THEO. AUDEL & Co., 63 FIFTH AVE.

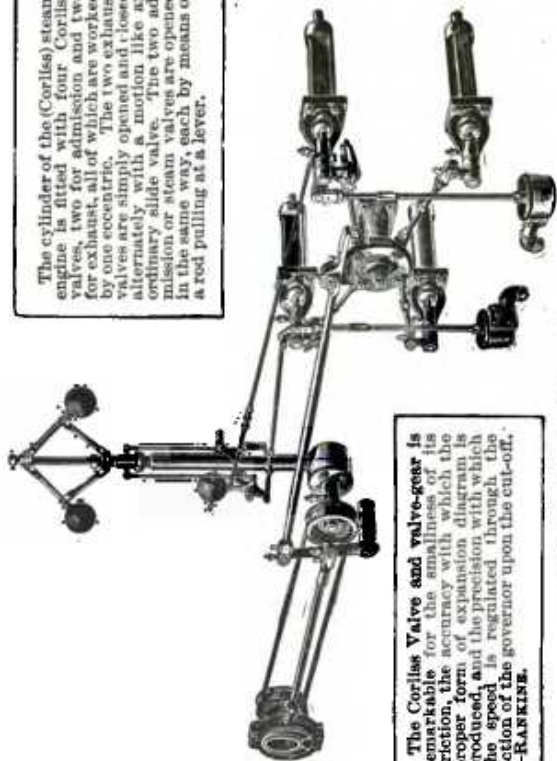
1898.

621.1.16

21296

TA
151
H37

The cylinder of the (Corliss) steam engine is fitted with four Corliss valves, two for admission and two for exhaust, all of which are worked by one eccentric. The two exhaust valves are simply opened and closed alternately, while the two admission or steam valves are opened in the same way, each by means of a rod pulling at a lever.



The Corliss Valve and valve-gear is remarkable for the smallness of its friction, the accuracy with which the proper form of expansion diagram is produced, and the precision with which the speed is regulated through the action of the governor upon the cut-off.

—RANKINE.

THE CORLISS VALVE. (See pages 150-154.)

*gen. dir.
Calamag. Bureau
2-14-1933*

C 5-19-34 21 & C

INTRODUCTION.

There are three parties to an engineer's license:

FIRST. The Applicant.

SECOND. The Public.

THIRD. The Examiners, or examining board of engineers.

To the applicant the period of an examination is a season of nervous dread and the utmost fitness does not always remove the feeling of anxiety.

Men often operate steam plants satisfactorily who cannot tell how they do it, and a thoroughly practical engineer may make a very poor showing when questioned by an examiner.

It is sometimes still worse when modest applicants are required to write their experience, for in the hands of many men the pen is an awkward tool; hence a very large margin is allowed to men who can demonstrate that they have had the necessary practical experience, even though they may not be able to answer questions off-hand; and those who have become "rattled" under the unusual catechising, are frequently kindly advised by the examiner to "come and try again."