NOTES ON MECHANICAL LABORATORY PRACTICE

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649659005

Notes on Mechanical Laboratory Practice by C. H. Benjamin

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

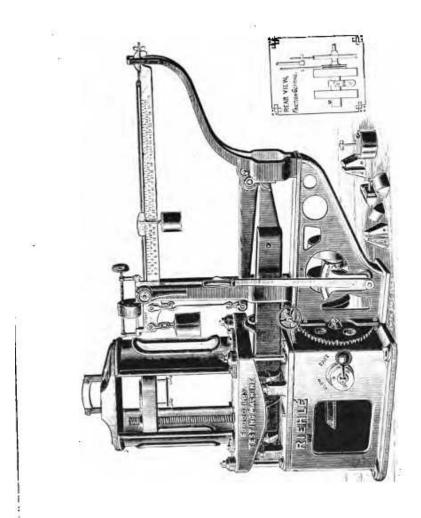
This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this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

www.triestepublishing.com

C. H. BENJAMIN

NOTES ON MECHANICAL LABORATORY PRACTICE

Trieste



×.

NOTES ON

.

.

÷

 \mathbb{Z}_{k}

.

٠.

Mechanical Laboratory Practice

C. H. BENJAMIN

-BY-

Professor of Mechanical Engineering, Case School of Applied Science.

> CLEVPLAND : ORARLES H. HOLMES. 2803 MICLID AVE. 1896.

ï 4 2 . 102 į, 134 -----11 22 ------BT • C R. BINDAMIN. i .

1379365

Т1131 MAY 23 1903 ТЕ В 4-3

PREFACE.

This book has been prepared for the use of students in connection with their work in the mechanical laboratory and contains descriptions of the more common apparatus used, directions for its care and use and forms for logs and reports of various experiments.

The experience of the writer has shown that much better results are secured by having a definite routine in laboratory work and by using printed forms for all logs and reports.

It is intended that duplicates of the forms given in the book shall be furnished to each division making an experiment and that these duplicates shall be filled out and handed in as a report of the conduct and results of the experiment, while the forms in the book itself can be filled out as a record for each student.

The duplicates all being of standard size, 6×9 inches, can be filed in envelopes and will constitute a permanent record of the tests made in the laboratory which may be of considerable value.

This book is not intended to take the place of the larger and more complete works on this subject which should be in the reference library of every laboratory, but as a hand book of convenient size to be taken into the testing room and used by the student in the conduct of experiments.

а К_р 8 4.2 * 51 - 63 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 - 192 193 - 19 27 75 ж. .

CONTENTS.

Chapter 1.

THE STRENGTH OF MATERIALS :

The besting machine. Extensioneters and other measuring instruments. Forms of specimens. Routine for various tests and forms for reports... 3-14

Chapter 2.

DYNAMOMETERS :

Chapter 3.

MEASUREMENT OF HEAT AND STRAM :

Chapter 2.

THE TESTING OF STEAM BOILERS :

Olyapter 3.

INDICATORS AND PLANIMSTERS :

Chapter 6.

TESTING STRAM ENGINES -

 20 - 12 14

20 ²⁵

æ.

83 87 10 10

94 - 12 16

3 •