MACHINE SHOP CATECHISM: CONSISTING OF OVER 1000 CAREFULLY SELECTED QUESTIONS AND ANSWERS

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649641277

Machine Shop Catechism: Consisting of Over 1000 Carefully Selected Questions and Answers by American Machinist

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

AMERICAN MACHINIST

MACHINE SHOP CATECHISM: CONSISTING OF OVER 1000 CAREFULLY SELECTED QUESTIONS AND ANSWERS

Trieste

MACHINE SHOP CATECHISM

89.) E

7)

3.5

12

 \overline{t}

.

8 - ⁶

M

i s_e s

1

1

20

20

13 81

n Digan Digan

а <u>ж</u>а

7

MACHINE SHOP CATECHISM

CONSISTING OF

OVER 1000 CAREFULLY SELECTED QUESTIONS AND ANSWERS

1913

.

Published by the American Machinist

McGraw-Hill Book Company, Sole Selling Agents 239 West Thirty-ninth Street, New York, N. Y. London, E. C. Bouverie St. Berlin, N. 10.7, Unter der Linden, 71.

COPTRIGHT, 1913, BY THE AMERICAN MACRINIST

,

3

1

٠

American Machinist, New York, U. S. A.

.

6933216

196827 JUL 21 1915 TI:H

ŧ.

.

1

PREFACE

The catechetical form of presenting information appeals strongly to the practical man who prefers a simple answer to a plain practical question rather than an exposition of the principles involved. This form has been employed in the columns of the American Machinist from time to time and a continuous flow of more or less elementary questions arising in the machine shop has led to this compilation. The answers are in accordance with common practice and are as complete as consistent with the form of presentation and the space restrictions imposed by the broad fields of work covered. AMERICAN MACHINIST.

v

.

•

800 B

TABLE OF CONTENTS

CHAPTER					PAGE
I.	MACHINE-SHOP CONSTRUCTION	* : *	1933	- 1	I
п.	Machine-shop Management		47%	202	8
III.	DRAWING-ROOM PRACTICE AND SYSTEM	÷.,	21143	- 84	21
IV.	FACTORS IN MACHINE AND TOOL DESIGN	222	19276	339	31
v.	MATERIALS USED IN MACHINE BUILDING	7.0		1.	38
VI.	STANDARDS IN MACHINE BUILDING		•0 m		45
VII.	POWER AND MOTORS FOR MACHINE TOOLS		18		53
VIII.	Power Transmission	0.00	2	- 22.00	
IX.	SHOP AND MACHINE SAFEGUARDS		632	1.04	76
	PATTERNMARING AND WOODWORKING				81
	FOUNDRY WORK.				
XII.	FORGING, HARDENING, TEMPERING AND HEAT TREATING	100	82400	194	98
XIII.	ENGINE LATHE WORK	£3	35473	422	107
XIV.	PLANING, SHAPING, SLOTTING AND BROACHING	$\mathbf{x}^{(1)}$	8	1334	113
XV.	DRILLING, REAMING AND TAPPING	232	13.1	- 34	110
XVI.	Milling, Sawing and Gear Cutting	258	1.23	5792	124
XVII.	HAND AND AUTOMATIC SCREW MACHINE WORK	ан. 11 -			132
	GRINDING				139
	PUNCHING, SHEARING, DRAWING, BENDING AND STRAIGHTEN				149
	SOLDERING, BRAZING AND WELDING				164
	MISCELLANEOUS SHOP PROCESSES				172
	AUTOMOBILE SHOP WORK				180
	RAILROAD SHOP WORK				185
	Machine-shop Computations				
	SHOP RECIPES.				100

vii