PLASTICS IN THE WORLD OF TOMORROW

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649088379

Plastics in the world of tomorrow by Burr W. Leyson

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

BURR W. LEYSON

PLASTICS IN THE WORLD OF TOMORROW

Trieste

PLASTICS

IN THE WORLD OF TOMORROW

Captain Leyson HAS ALSO WRITTEN

AMERICAN WINGS

AERONAUTICAL OCCUPATIONS

FIGHTING FIRE

PHOTOGRAPHIC OCCUPATIONS

FLIGHT TRAINING FOR THE ARMY AND NAVY

AUTOMOTIVE OCCUPATIONS

THE AIR RAID SAFETY MANUAL

WINGS FOR OFFENSE

(New Edition to replace WINGS OF DEFENSE)

IT WORKS LIKE THIS

THE ARMY ENGINEERS IN REVIEW

THE WAR PLANE AND HOW IT WORKS

ELEMENTS OF MECHANICS

"An introductory guide to the how, why and what of the machine age in which we live, tempering the wind of science to the fleece of the layman; fine photographic illustrations." — Oakland Tribune

THIS MAN LA GUARDIA (with Lowell M. Limpus)

Published by E. P. DUTTON & COMPANY, Inc.

PLASTICS IN THE WORLD OF TOMORROW By Captain Burr W. Leyson

ILLUSTRATED WITH PHOTOGRAPHS

NEW YORK . E. P. DUTTON & CO., INC. . 1944

Copyright, 1944, by E. P. Dutton & Co., Inc. All rights reserved. Printed in the U. S. A.

NO PART OF THIS BOOK MAY BE REPRODUCED IN ANY FORM WITHOUT PERMISSION IN WRITING FROM THE PUBLISHER, EXCEPT BY A REVIEWER WHO WISHES TO QUOTE BRIEF PASSACES IN CON-NECTION WITH A REVIEW WRITTEN FOR INCLUSION IN MAGAZINE OR NEWSPAPER OF RADIO BROADCAST.

FIRST EDITION



A WARTIME BOOK

THIS COMPLETE EDITION IS PRODUCED IN FULL COMPLIANCE WITH THE COVERN-MENT'S REGULATIONS FOR CONSERVING PAPER AND OTHER ESSENTIAL MATERIALS.

S. A. Jacobs, The Golden Eagle Press Mount Vernon, N. Y.

CONTENTS

Part One

CAREERS IN THE PLASTICS INDUSTRY

CHAPTER		PAGE
1	A General Survey of the Uses of Plastics in Industry	17
п	The Fields and Opportunities for a Career	
	in the Plastics Industry	33

Part Two

The Principal Plastics – Characteristics and Industrial Uses

III	Cellulose Nitrate or Pyroxylin-First of	
	the Plastics	41
IV	Shellac Plastics	53
v	Bitumen Plasties	61
VI	Phenol-Formaldehyde Plastics	65
VII	Casein Plastics	73
VIII	Cellulose Acetate Plastics	77
IX	Urea-Formaldehyde Plastics	83
х	Vinyl Resin Plastics	87
XI	Styrene Plastics	93
XII	Acrylic Resin Plastics	97
XIII	Cellulose Mixed Ester Plastics	101

CONTENTS

CHAPTER	3							PACE
XIV	Ethylcellulose Plastics		*	÷			÷	105
XV	Lignin Plastics	8	03		•	8	×	109
XVI	Alkyd Resin Plastics	•	49	340	94	2	÷	111
XVII	Coumarone-Indene Res	sin	Pla	stic	s.	2	2	113

Part Three

PLASTICS IN THE AIRCRAFT INDUSTRY

XVIII	Aircraft Plastics	- 6	84	\mathbf{i}	14	\sim	117
XIX	Electronic Bonding of Pl	astic	cs,	8	i.	÷	129

Part Four

THE FABRICATION OF PLASTICS

XX	Compression Molding	9	R	24	-	¥	2	147
XXI	Injection Molding .	5 2)		S.	27	\$	÷	153
XXII	Extrusion Molding .	3.2	•			•		157

Part Five

SPECIFIC USES OF PLASTICS IN INDUSTRIES

XXIII	Lists of Uses in	n Vai	riou	s In	dus	trie	s.	æ	÷	163
	Bibliography	3	•		٢		3			177
	Index			•2		•	æ		*	179

LIST OF ILLUSTRATIONS

Inspecting a sheet of Luci	te .			<i>i</i> a - a			etween pa 28 and	
Testing plastic-reinforced							28 and	29
Table with plastic legs .							28 and	29
Plastic interior decoration							28 and	29
Spring hat trimmed in pl	ast	ic	5				44 and	45
Plastic shoe							44 and	45
Plastic bridal cap	à			2	e : 2		44 and	45
Plastic pillow case						•	44 and	45
Plastic flower basket			÷ :				44 and	45
Plastic lunch case							44 and	45
Plastic strainers	5 3			2	2	2	60.and	61
Plastic handles on tablev	var	e		÷	4	45	60 and	61
Plastic grater					•	*	60 and	61
Postwar kitchen unit in p	olas	tie			*	•	60 and	61
Door and telephone boot	hs	in p	last	ics			60 and	61
Office interior in plastics							60 and	61
Plastic rattan on streetca	r se	ats		i.		2	60 and	61
School children using pla	asti	c se	ats		æ	÷	76 and	77
Washing stain off plastic	fur	nitu	пe	cov	erir	ng	76 and	77
Plastic chair	•	•a - a	•			•	76 and	77
Plastic window shade							76 and	77
Plastic coat hangers .							76 and	77
Razor and container of						ŝ.	76 and	77
Plastic portable radio	*	•				÷	76 and	77
Plastic flute							76 and	77