

CONTENTS

	PAGE
PREFACE.....	v
ACKNOWLEDGMENTS.....	vii
 CHAPTER	
I. THE RELATION OF AGRICULTURAL MACHINERY TO AGRICULTURAL PROGRESS.....	1
II. THE FUNCTION OF MACHINES AND SOME MECHANICAL PRINCIPLES..	11
III. THE ELEMENTS OF MACHINES.....	17
IV. MATERIALS USED IN THE CONSTRUCTION OF AGRICULTURAL MACHINES.....	26
V. THE DESIGN OF AGRICULTURAL MACHINES.....	33
VI. TRANSMISSION OF POWER.....	46
VII. MEASUREMENT OF POWER.....	60
VIII. FRICTION AND LUBRICATION.....	67
IX. TILLAGE.....	79
X. PLOWS.....	86
XI. PLOW OPERATION AND ADJUSTMENT.....	113
XII. HARROWS, ROLLERS AND PULVERIZERS.....	126
XIII. CULTIVATORS.....	140
XIV. SEEDING MACHINES.....	151
XV. CORN AND COTTON PLANTERS.....	163
XVI. GRAIN-HARVESTING MACHINES.....	173
XVII. THRESHING MACHINES.....	187
XVIII. COMBINED HARVESTING AND THRESHING MACHINES.....	198
XIX. CORN-HARVESTING MACHINES.....	208
XX. MOWERS.....	216
XXI. MACHINES FOR MAKING AND HANDLING HAY.....	223

CHAPTER	PAGE
XXII. SPECIAL MACHINES FOR GROWING AND PROCESSING COTTON.....	238
XXIII. SPECIAL MACHINES FOR GROWING POTATOES.....	246
XXIV. MACHINES FOR GROWING GARDEN AND TRUCK CROPS.....	255
XXV. SPECIAL MACHINES FOR CORN.....	260
XXVI. FEED-PREPARING MACHINES.....	276
XXVII. GRAIN CLEANING, GRADING AND SEPARATING MACHINES.....	286
XXVIII. GRAIN-CONVEYING AND ELEVATING MACHINES.....	296
XXIX. MACHINES FOR DISTRIBUTING FERTILIZER.....	301
XXX. PUMPS.....	312
XXXI. SPRAYING AND DUSTING MACHINES.....	324
XXXII. MACHINES FOR THE DAIRY.....	337
XXXIII. VEHICLES.....	347
XXXIV. LIFE, USE, AND COST OF AGRICULTURAL MACHINES.....	358
XXXV. SELECTION AND MANAGEMENT OF AGRICULTURAL MACHINES.....	368
XXXVI. CARE AND REPAIR OF AGRICULTURAL MACHINES.....	377
XXXVII. THE MANUFACTURE OF AGRICULTURAL MACHINERY IN THE UNITED STATES.....	383
INDEX.....	389