

# CONTENTS

## CHAPTER I

	PAGE
COTTON FIBER.....	1

## CHAPTER II

MANUFACTURING PROCESSES FOR COTTON FIBER.....	41
---	----

## CHAPTER III

COTTON YARN.....	86
------------------	----

## CHAPTER IV

ORGANIZATION AND PROPERTIES OF INDUSTRIAL FABRICS.....	130
--	-----

## CHAPTER V

USES OF INDUSTRIAL FABRICS.....	214
---------------------------------	-----

## CHAPTER VI

TEXTILE LABORATORY.....	267
-------------------------	-----

## CHAPTER VII

SPECIFICATIONS AND TEST METHODS.....	410
--------------------------------------	-----

## CHAPTER VIII

SYNTHETIC FIBERS.....	648
-----------------------	-----

## TABLES

	PAGE
I. Grades of Cotton . . . . .	14
II. Standards for Grades . . . . .	15
III. Staple Lengths and Grades of Ginned Cotton . . . . .	16
IV. Cotton Production . . . . .	22
V. Actual Cotton Ginned . . . . .	23
VI. Cotton Acreage . . . . .	24
VII. Cotton Acreage by States . . . . .	25
VIII. Cotton Yield Per Acre . . . . .	26
IX. Ten Cotton Markets . . . . .	28
X. Staple Length and Prices . . . . .	28
XI. Grades and Prices . . . . .	29
XII. Processes . . . . .	84
XIII. Twists per Inch, Roving and Yarn . . . . .	87
XIV. Yarn Numbering Systems, Whitin Table . . . . .	91
XV. English or Hank System . . . . .	98
XVI. Worsted Yarn . . . . .	99
XVII. Woolen Yarn — Run System . . . . .	100
XVIII. Woolen Yarn — Cut System . . . . .	101
XIX. Denier System . . . . .	102
XX. Metric System . . . . .	104
XXI. English — Metric . . . . .	105
XXII. Metric — English . . . . .	107
XXIII. Sheldon Table — Combed . . . . .	110
XXIV. Sheldon Table — Carded . . . . .	111
XXV. Draper Table . . . . .	112
XXVI. Textile Recorder Table . . . . .	114
XXVII. Calculation of Yarn Sizes . . . . .	115
XXVIII. Conversion Table — Yarn Numbers . . . . .	116
XXIX. Standard Industrial Fabrics . . . . .	131
XXX. Brands of Single Filling Duck . . . . .	146
XXXI. Brands of Double Filling Duck . . . . .	147
XXXII. Card Price List — Ounce Duck . . . . .	160
XXXIII. Card Price List — Wagon Cover Duck . . . . .	164
XXXIV. Price, Narrow, Sail and Wide Duck . . . . .	173
XXXV. Weights of Wide Duck . . . . .	175
XXXVI. Applications of Fabrics . . . . .	176
XXXVII. American Cloths — Clark . . . . .	179

	PAGE
XXXVIII. Bonded Fabric Laminate Properties.....	212
XXXIX. Uses and Fabrics.....	250
XL. Strength Corrected for Moisture Regain.....	406
XLI. Comparative Tests on Airplane Cloth.....	421
XLII. Goodyear T. & R. Co. Report.....	422
XLIII. Goodyear T. & R. Co. Report.....	423
XLIV. Goodyear T. & R. Co. Report.....	424
XLV. Goodyear T. & R. Co. Report.....	425
XLVI. Relative Humidities.....	636
XLVII. Properties of High-Tenacity Rayon.....	653
XLVIII. American High-Tenacity Rayon Deniers.....	654
XLIX. Properties of Cellulose Acetate and "Fortisan".....	658
L. Properties of Nylon.....	661
LI. Properties of "Fiberglas".....	664
LII. Properties of "Vinyon".....	669
LIII. Properties of Saran.....	674
LIV. Properties of "Orlon".....	677
LV. Summary of Fiber Properties Insert following page.....	678