

PREFACE

OF the 515 pages of this work about two-thirds appeared originally in serial form in the *Textile Manufacturer*, under the title of "Jute and Linen Weaving, Part III. Designing, etc." It was at first our intention to restrict the subject-matter to design as applied to jute and linen textures, but as the work progressed it became more and more apparent that most of the text and practically all the illustrations were of general interest and application. We therefore decided to extend the work so as to cover practically the whole field of textile design as applied to the various branches of the industry. Many pages of text and illustrations have, therefore, been added in order that the book might be a comprehensive treatise on the subject of textile technical design.

Almost every important type of textile fabric is illustrated and described in more or less detail; and some idea of the scope of the work may be gathered from the fact that there are altogether 307 illustrations, embodying over 1400 different designs, plans, intersections, and photographic reproductions of many textile fabrics.

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CONTENTS

CHAPTER I

INTRODUCTION

	PAGE
Classification of fabrics ; uses of design paper, etc.	1

CHAPTER II

PLAIN, TWILL, AND SATEEN WEAVES.

Plain cloth ; rib weaves ; basket weaves ; twill and sateen weaves ; rearrangement of weaves ; small fancy weaves ; drafting	7
--	---

CHAPTER III

MOCK LENOS, HUCKABACKS, HONEYCOMBS, ETC.

Designs and drafts for mock lenos ; huckabacks, with and without borders ; honeycombs and Brighton cloths	56
---	----

CHAPTER IV

CRÊPES AND OTHER GROUND WEAVES

Crêpe and oatmeal patterns ; small fancy ground weaves ; weaves obtained by superposition and rotation ; small independent effects	74
--	----

CHAPTER V

SPIDERS

	PAGE
Spider designs and fabrics	96

CHAPTER VI

HERRING-BONES, DIAMONDS, AND DIAPERS

Herring-bone stripes ; simple diamonds ; elaborate diamonds with cloth effects	101
--	-----

CHAPTER VII

DICES

Simple dice patterns ; imperfect and perfect method of forming dice patterns ; production of dice patterns by special means ; fancy dice patterns for decorative articles	137
---	-----

CHAPTER VIII

SPOTS

Simple spot effects with plain weave ; spot effects with simple weaves	156
--	-----

CHAPTER IX

DAMASKS

Detailed description of damask designs for full harness, pressure harness, and "common" harness weaving ; concrete examples for reproduction of table damasks, napkins, etc., with notes on the selection of the most suitable machines ; transference of sketches to design paper ; practical demonstration of making designs ; damask designs with comber-	
--	--

	PAGE
board arrangements ; methods of shading damasks for full harness and common harness cloths, with photographic reproductions of shaded effects in cloth, and the weaves used for same	166

CHAPTER X

CHECKS AND SMALL EFFECTS

Checks obtained by two or more simple weaves or by elaborate weaves ; drafting and weaving plans	240
--	-----

CHAPTER XI

COMPOUND FABRICS

Double warp-faced fabrics ; relation of the number of threads and picks per inch to structure ; corkscrews ; diamonds ; dices	248
---	-----

CHAPTER XII

DOUBLE WEFT-FACED FABRICS

Contracted and ordinary methods of making double weft-faced fabrics	266
---	-----

CHAPTER XIII

BACKED CLOTHS

1. Fabrics backed with weft ; best places for stitching points ; backing with twill, sateen, and irregular weaves	272
2. Fabrics backed with warp ; resemblance to weft-backed fabrics ; new method of backing with warp ; further reference to simplification of designs	280

CHAPTER XIV

SPOT AND SIMILAR ISOLATED EFFECTS PRODUCED WITH
EXTRA WARP OR EXTRA WEFT

	PAGE
Various spot effects with and without binding points ; method of figuring with extra warp and extra weft	286

CHAPTER XV

EFFECTS PRODUCED WITH EXTRA WARP AND EXTRA WEFT

Comparison between the two distinct methods	298
---	-----

CHAPTER XVI

DOUBLE CLOTHS

Methods of making any kind of double cloth ; specific details showing faults to be guarded against, and advantages to be secured ; figured double cloths with and without binding points ; double plains, twills, and fancy weaves for circular fabrics	309
---	-----

CHAPTER XVII

THREE AND MORE PLY FABRICS

Different methods of making three-ply fabrics, stitched and unstitched ; application of the various three-ply plain and other weaves in the production of three-ply figured fabrics ; simple method of making any multiple unbound fabric ; four-ply fabrics with harness arrangement and card-cutting particulars	339
--	-----

CHAPTER XVIII

VELVETS, PLUSHES, AND SIMILAR WARP-PILE FABRICS

The different forms of cut pile loops ; cut and uncut pile fabrics woven with wires ; cut pile fabrics woven without wires in the double plush loom ; fabrics with cut pile on both sides ; figured plush fabrics ; design and intersections of each fabric described	360
---	-----

CHAPTER XIX

BRUSSELS, WILTON, TAPESTRY, ROYAL AXMINSTER, AND PATENT
AXMINSTER CARPETS

	PAGE
Brussels carpet ; definition of different makes ; structure of cloth ; method of designing Wilton carpet ; essential difference between Brussels and Wilton ; tapestry carpet ; apparent similarity to Brussels ; the different kinds of Axminster carpets ; their structure ; methods employed for manufacture	394

CHAPTER XX

TURKISH TOWELLING, OR TERRY FABRICS

General structure of the fabric, and means used for making the loops ; 3, 4, 5, and 6-pick terry fabrics	414
--	-----

CHAPTER XXI

WEFT PILE FABRICS

Distinct from warp pile fabrics ; similarity in appearance ; common and particular velveteens ; imitation lambskin ; patent velvet ; corduroys ; imitation sealskins ; figured weft pile fabrics	429
--	-----

CHAPTER XXII

BEDFORD CORDS, PIQUÉS, TOILET COVERS, ETC.

Simple and complex Bedford cords, piqués, and other ribbed fabrics ; different kinds of toiletings and quilts ; patent satin	440
--	-----

CHAPTER XXIII

GAUZE AND LENO FABRICS

Elementary principles of gauze weaving ; simple and elaborate crossings ; fancy reeds ; gauze harness with methods of designing ; gauze reed, etc.	453
--	-----

CHAPTER XXIV

LAPPET AND SWIVEL FABRICS

	PAGE
General structure ; lappet wheel ; method of developing spots by swivels	476

CHAPTER XXV

SILK PICTURE DESIGNS AND FABRICS

Photographs of silk cloths and designs for silk picture weaving	496
---	-----

INDEX	511
-----------------	-----

CHAPTER I

INTRODUCTION

IN its widest sense the term Textile Design embraces the pattern development, the weave structure, and the colouring of all textile fabrics, but the particular meaning conveyed by the term will vary, naturally, with the different branches of the weaving industry. It may, for example, be considered chiefly from the point of view of art, of colour, of weave structure, or from a restricted combination of these sections. Many types of elaborately figured fabrics, both white and coloured, are limited in their structure to a few standard weaves : one type depending almost entirely upon artistic beauty of form and the closely-set fine yarns in which the design is developed, as in silk, linen, and other damasks ; another type depending almost wholly upon the joint effect of the forms, yarns, and colouring, as in Brussels, Wilton, Scotch or Kidderminster, Axminster, etc. carpets, rugs, certain quilts, and many kinds of upholstery cloths. Very little actual knowledge of cloth structure is required by the designers of the above fabrics, for, in most cases, the structure, which does not appear on the design, is imparted automatically by specially constructed machinery. The designs are, therefore, more or less elaborate treatments of