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Consedge Selvedge Grain of Fabric Selvedge

If the garment is cut on the bias, choose a pattern with a centre seam or opening in the front and back and follow these rules:

 Fold the full width of the fabric on the crosswise grain, right sides together.

2. Lay the pattern with the grain line parallel to the selvedge. Notches that are to be joined together must be on the same stripe. Stripes must be matched at side seams and centre seams or centre openings. Match at the seam-line, not the seam edge.

3. During dress construction, slip-tack all seams.

When the stripes are uneven, lay the pattern pieces on the fabric in one direction.



Small checks

Checks \cdot 6 cm ($\frac{1}{4}$ inch) or more in size must be matched; smaller checks are more attractive when matched.

Florals, Prints and Jacquards

Many floral fabrics have an 'up' and 'down' to the motif, and when they do, you must lay all pattern pieces in one direction.

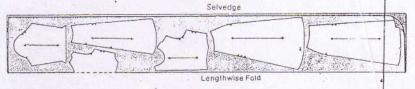
To achieve a pleasing effect with medium of large motifs, make sure that they fall above the bustline instead of directly over it, approximately in the same position in the front as in the back, and in the same place on each sleeve. Match at the seamline whenever possible.

As with checks, avoid patterns that require many seams within the bodice and skirt. Simple lines are most suitable for prints, both large and small.



Pile Fabrics

Pile fabrics such as velvet, velveteen and corduroy should be cut with the pile standing up to emphasise the rich dark tone. To determine the direction of the pile, brush the fabric with the fingers. If the surface is smooth, you are brushing with the pile; if rough, you are brushing against the pile. Use the 'rough' direction for the top of your pattern layout; and lay all pieces in the same direction, following the 'with nap' instruction guide with the pattern. Use fine needles to pin the pattern to the fabric.



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component of sunlight, absorb the ultraviolet light and convert it to light in the blue

incident ultraviolet waves from sunlight. of sunlight if they are exposed to it behind glass; glass filters out or absorbs most of the region of the solar spectrum. This reflected blue light makes white textiles look whiter. The detrimental effects on the polymer system of a fibre and on dye molecules during prolonged exposure to sunlight may be mainly attributed to ultraviolet light waves. This is borne out by the fact that fibres and dyes have a better resistance to the effects

Infrared radiation

effects of ultraviolet light assisted by the heat energy provided by infrared radiation. clouds. Thus, even on overcast days, outdoor exposure of textiles subjects them to the is due to the invisible infrared radiation. Infrared waves, like ultraviolet, also penetrate band. In fact, a significant portion of the heat experienced during exposure to sunlight essentially invisible, infrared waves extend the heat energy radiated by the visible light the 'red' end of the visible light spectrum (see Fig. 8.1 and Table 8.1). Although The term infra means below or further on. In other words, the infrared waves are at

What is colour?

the particular wavelength or combination of wavelengths of the light source. occurs which results in impulses that are transmitted along the optic nerve to the brain. eye and are focused on the retina by the lens of the eye. A photochemical reaction Colour is a sensation which occurs when light enters the eyes. Light waves enter the The solour which is observed, perceived or experienced by the brain is dependent on

only light with wavelengths which appear green to the eye. There are different greens green in white light because the dye on the fabric absorbs most of the light and reflects type of dye, amount of dye and structure of the textile material. white light because it reflects all the light waves. However, a green fabric appears because the reflected light is composed of different wavelengths which depend on the and reflect only the wavelengths of its colour. Thus, a white fabric appears white in This colour occurs because the textile material will absorb all the light falling upon it, If a textile material is examined in white light the material has a particular colour.

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the particular colour of the fabric will also appear black. be seen as black. Any coloured fabric which is viewed under light which is not white or since the light is not white or green, very little light will be reflected and the fabric will occurs because the green fabric will absorb nearly all the light that is incident on it and under any light source other than white or green the fabric will appear black. This the incident green light is reflected. On the other hand, if the green fabric is viewed The green fabric when viewed under green light will appear green because most of

specifying colour

There are three terms which are used to describe and specify colour.

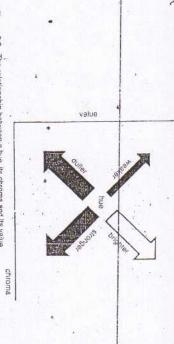


Figure 8.2 The relationship between a hue, its chroma and its value

I Hue is the common name of the colour; for example, pink, mauve, scarlet, beige

has a deep colour or approaches black. 100 colour is termed light in value when it approaches white and dark in value when it Value is the term used to describe lightness, darkness, tone or shade of the hues. A

3 Chroma is the term used to describe depth of colour; that is, the dullness, bright (Note: Chroma is from the Greek for colour.) our is said to have much chroma whereas a dull colour is said to have little chroma. ness, saturation, intensity, vividness or purity of the colour. A bright, intense col-

cards available from most paint manufacturers. The pastel colours of the brilliant gloss colours. The dark colours of the brilliant gloss paints will be placed in the lower rightpaints will be placed toward the top-right of Fig. 8,2 as they are very bright, light These terms and Fig. 8.2 will be easier to understand if you can examine the colour hand corner of Fig. 8.2 as these are very bright, strong colours. Figure 8.2 illustrates the relationship between a hue and its value and chroma

of the flat plastic paints will be placed in the lower left hand corner as these colours are corner of the figure as these colours are dull and tend toward white. The darker colours The pastel colours of the flat plastic paints would be placed toward the top left

Perception of dolour

when light focuses on the retina and initiates a photo-chemical reaction in the retina The perception of light and colour is part of one of the five human senses and occurs This reaction results in the sensation of colour.

The retina has two distinct types of nerve cells which are called cones and rods (see

Cones are nerve cells which convey the sensation of colour to the brain. Cones are

ne hy needles that operate at right angles to the construction. Thus, the lappet weave. The design is stitched into the fabweave is very similar to embroidery.

UNIT 2 YARNS TO FABRICS

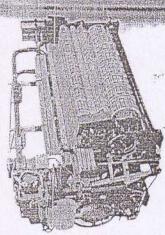
The lappet design is made with one back of the fabric from one design to the continuous additional yarn carned on the next. The floating threads on the back may be cut away when the fabric is completed, but the ends are fastened securely fabrics made with the lappet weave are superior to similar ones made with the swivel and will not pull out easily. Therefore,

weave is employed on a variety of fabrics Fabrics in the Labbet Weave. The lappet where novelty patterns are desired.

Dobby Weave

The designs are Simple, limited The dobby weave is a patterned weave used to construct designs that cannot be in size, and usually geometric in form. The dobby weave is created on a forty harnesses containing the series of warp yarms that form the pattern (see Figof dobby weave is bird's eve, the small diaproduced by the plain, twill, or satin They are found in shirtings and tie fabplain loom by means of a mechanical attachment, called a dobby or cam, which raises or lowers as many as twenty-four to Although a large number of harnesses is used in this construction, the design is, always small and does not make The most familiar type mond pattern made with short floats that give the impression of an eve. use of long floats. weaves.

by the particular design. Typical fabrics Fabrics in Babby Weave. Fabrics made with a dobby weave are generally of spun have a rough or pebbly surface imparted yarn and of medium-weight. They may



left for the dobby movement to obtain the desired Note the punched pattern indication control on the design to be woven into the fabric. (Courted Figure 4-33. A loom with a dobby attachmen Crompton & Knowles Corporation)

are bird's-eye, huckaback, and granifer cloth.

Jacquard Weave

In any of the weaves that have been de weave, three or more for the twill, and hive to twelve for the satin weave. As many as two harnesses are required for the plain The dobby de scribed, the number of harnesses deter For exampl forty can be manipulated by the speciare limited to straight lines, edges, step signs are not intricate, however. mines the construction. attachment of the dobby. or small circular lines.

le player piano, where each note is gov-ned by a hole on the music roll and is

builded when the hole passes over a cer-

in opening.

messes. Its action is similar to that of

on squared paper. 'Cards are then forated to correspond with the design;

e a chain of punched data processing lent (see Figure 4-34). The moving pass over a battery of needles mounted on top of the loom. Each neecased, picks up the heddle to which it is The perforations on the cards allow the needles to drop through, and lift cer-

ey are laced together, looking somewhat ids, and placed on the Jacquard attach-

The Jacquard design is first worked

dependently of others without the use of after its developer, Joseph Marie Jack The Jacquard dles, which lift one or more warp yams in range of intricate designs. This need is met by the Jacquard attachment, named ures, it was necessary to devise a different mechanism that would allow an unlimited controls thousands of hed For curves, swirls, and large-sized fig quard, a Frenchman. mechanism

Curds

dles independently of others (see Figure Setting up the loom may weave is the most expensive part of its tam strings, which, in turn, lift single hed? The preparation of a Jacquard take several weeks or months; but once set, the pattern to be produced can be This is the most expensive form of weavused and reused for different materials. However, computerized versions now permit patterns to be programmed. readily modified, and stored, which facilitates operations. construction. Ing.

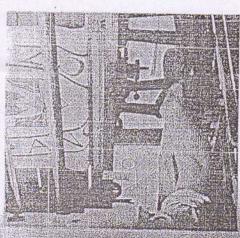
Floats are mevitable in the Jacquard As in the satinfweave, long floats may affect the wearing quality of the fabric, also, long yarns exposed to friction cause lint. Compact construction of the fabric, however, offsets the tendency to friction and The consumer should select accordingly when purchasing fabrics having table cloths which receive hard wear and weave because of the elaborate designs. the Jacquard weave, especially damask repeated washings. Wear.

DISTINGUISHING WARP AND

Persons who deal with fabrics, as well as to identify the warp and the filling yarms, the home sewing consumer, must be able because the direction of the warp determines the way in which the fabric should

dle controls a string, which, when re-

hed



Each hole in pard controls the loom mechanism that raises The card puncher has a paper design Following a line of checks across the desired warp yarns in the fabric surface, thus daing the weaving design. (Coursey Textile fign paper, he inserts steel punches in the card the specified on the paper design. Each hole in re 4-34 e gre him.

Fabrics in Jacquard Weave. The Jacquard weave is used in light-, medium-, and tern, and weight, they are used for such apparel as dinner jackets and evening gowns and for such home furnishings as heavyweight cloths made of spun and filament yarms to produce a range of decorative fabrics including brocade, brocatelle, damask, matelasse, and tapestry (see Figure 4-36). Depending upon the yarn, pattable cloths, drapery, and upholstery.

Soaps and Detergents. Although soap or

in hot water to reduce the possibility of different washing methods are necessary. rated from white ones, and heavy workclothes, colored fabrics should be sepaacquainted with the proper method of removed before the fabrics are immersed Insofar as possible, bad stains should be clothes from fine and delicate pieces, as washing each type of garment and fabric in laundering. The consumer must be is not enough information, for good results Before any attempt is made to wash Just knowing that a fabric is washable

sufficient hot water, improper soaking, facturers' directions for using laundering agents and washing machines should be followed. Studies have shown that the ingredients as surfactants that suspend dirt particles with reduced suds, builders that prevent scum formation, antideposiother single factor, is the most important level of detergent use, more than any otherwise become gray, fluorescent whitwater. These are formulated with such posit on fabrics. On the other hand, varicompounds to form curds that can redesoap powder may be used, it reacts in hard laundered fabrics. Other factors are ineners, and fabric softeners. The manudo not react with mineral salts in hard water with calcium and/or magnesium long wash periods, insufficient detergent, tactor in retention of original whiteness of from resettling on the fabric that might tion agents that prevent lifted soil particles ous synthetic detergents are available that oversoading the washing machine, over Studies have shown that the

> ness due to accumulated redeposition, it is tem. Once fabrics have lost their white-COVET II. difficult and sometimes impossible to reand improper use of the subsection size

with care. There are two major types of which act as germicides and color re-Bleaches. Bleaches are oxidizing agents bleaches: hypochlorite and oxygen fabrics if not properly selected and used They may also adversely affect

of hypochlorite bleaches are the "chlorine" powders which utilize N-chloro a 5 to 6 percent solution. Another form Hypochlorite Bleaches. Most hypochlocompounds which act as an "instant" hyrite bleach used is sodium hypochlorite in pochlorite when dissolved in water.

tive germicide. However, this type of bleach is an effecpriate use and care should be exercised. eyes, or hair. It is also corrosive. Approagent in the detergent to become attached. the washing cycle to allow the fluorescent are destroyed by hypochlorite bleach unsistant finishes react with them and yellow the fabric. Some fluorescent whiteners this text, certain fibers are degraded by hygerous if it comes in contact with the skin, to the fabric. Hypochlorite bleach is danless the addition of the bleach is delayed in pochlorite bleaches. Certain wrinkle-re-As discussed in various sections of

Oxygen Bleaches. Powder bleaches wrinkle-resistant finishes and they generally do not fade colored items. Howtive germicides erally do not fade colored items. be used on all fabrics. They do not yellow usually contain sodium perborate or poever, oxygen bleaches are not very effecslightly more active, but both may safely

or in a form to be put into the driver. as an ingredient to be added to rinse water Fabric softeners are also available either detergent formulations include them imparts a soft hand, reduces static charge pounds. The cationic in the compound duce wrinkling. As already noted, some and makes ironing easier. Some also rebased on qualcritics authoriting com-Fabric Softeners. Fabric settliners and

tion and at the proper time. If too much should be used in the proper concentrafor the use of fabric softeners. They It is important to follow instructions

the aid of the moisture and heat. where it is deposited on the fabrics with a dry tabric softener put into the dryer effectiveness. An alternative is the use of gent ingredients (such as a water softener) otherwise a reaction with certain deter softeners must be added to the final rinse able for towels, for example. Some fabru or with a chlorine bleach may nullify its cause the fabric surface to be water repel is used at one time, a build up of the car lent—which certainly would not be soil labric to feel greasy and in some instance ionic chemical can develop and cana the

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ment help in canng for the garment? I. In what way does the label on a gar-

(c) How should knitted clothes be kept?

3. Why is a firm brush recommended for Why are knitted garments an exception? 2. (a) Why should most clothes be placed on hangers when not in use? (b)

 brushing clothing?
 A. Why should garments not be crowded 5. Why should white garments be separated from colored ones before laun-

rest? attending to these without delay by "needed repairs" (b) Give reasons for 7. (a) Why should clothes be given a rest? (b) How does this apply to wool 6. (a) Give illustrations of what is meant

moved as soon as it is discovered 8. Why should a stain or spot be re-

Permanent Care Labeling Rule?

9. What are the principle features of the

(a) bleaches and (b) fabric softeners? siderations should be given to the use of 10. When laundering clothes, what con

lection of the clothing item is a prudent consider important enough to ask the salesperson to make certain that your sestore, prepare a list of questions that you . For your next buying trip to a retail

Cut six advertisements from a newspa with these textile terms has proved helpfu have taken on new meaning for you since to you recently. studying textiles. Explain how familiant per, and circle all the textile terms that

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The North

though they are now also woven in other parts of the city Brocades are textiles woven with warp and well threads of different colours and often of different materials. The Benares:brocades are woven in silk, with profuse use of metal threads on the 'pallavs' (endpieces) and the field of the sari. The weavers are Muslim, but, significantly, they are not known by the common word for weaver, 'jullaha', but as 'karigar', which means 'artist'. The brocades are woven in workshops known as 'karkhanahs!' which are a series, of interconnecting rooms, usually on the first floor Almost every square inch of ground space in the room is taken up with looms, and above each loom hangs a crowded arrangement of strings leading down to the loom heddles. The weavers work in artificial light (nowadays, by an electric light), inva calm and quiet atmosphere which is . conclucive to the concentration needed for the weaking of such complicated designs.

The zari thread, known as 'kalabattun', consists of linely drawn gold, silver or base metal thread, wound round a silk thread.) Silk traditionally came from Bengal, Central Asia and Italy, but now comes from either Malda, in Bengal, or from Kashmy or Japan, Varanasi paradoxically lies within a cotton-growing area, and although there is decumentary evidence of cotton textiles dating back to the first millennium BC, there is no mention of silk brocades until Tavernier's description of his visit to Varanasi in AD 1665, from which can be surmised that the textiles he saw in the caravanserais and temples were . . . Varanasi zari-work brocades. The tast India . . . Company arrived in Varanasi in 1764 and took over the administration soon afterwards. Varanasi then became a haven for many rich merchants and noble families escaping from the troubles of post Mughal north India. These were the clients who patronized the Benares zari and brocade maufacturers, and demanded textiles of the type

The densely populated north of India has a proud textile tradition, but there is not nearly so strong a local demand from the rural population for hand-produced textiles as there is in west India. Contemporary phulkaris and Chamba rumals are very rare indeed. Rural life has changed irrevocably and no longer is there time or need for the working of these beautiful textiles. The commercial chikan-work embroidery long ago lost the rich patrons who would commission the

of fineness which gave the Benares brocades the name. According to local legend, Varanas, was one of the centres to which brocade weaving w. brought after a great fire in Gajarat or 1300.

The most famous brocaded textile of Varanasis called 'kinkhab' fa Persian Term), woven with a coarse but durable silk known as 'mukta' which is heavy enough to take brocading with gold or silver thread. Kinkhab was also woven at other centres, notably Ahmedabad and Surat in Gujarat and at Paithan, Aurangabad and Hyderabad in the Deccan. Kinkhab was a heavy 'fabric, often used for furnishing but rarely for clothing, and was not only a popular trading atticle on the local market, but was also exported to Europe, Arsilk-and-zari-work brocade of lighter material and less, heavy ornamentation is known as 'pot-than' or 'bafta'. The name for brocades without any metal thread work is 'amaru'.

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Benares brocades are woven on pitlonins. Traditionally, the design of the brocade was first worked out on paper and then an expert, known as a 'naksha-bandha', rendered the design into cotton threads on a 'naksha') (the indigenous thread device that performs the same function is the Jacquard). The naksha bandhas of Varanasi were so skilled that they tied the designs for the weavers of other brocading centres, such as Sura in Gujarat and Chanderi in Madhya Pradesh. Today in Varanasi, the Jacquard device has overwhelmingly replaced the use of the naksha.

The delicate designs of the past were replaced at the end of the nineteenth century by patterns taken from Victorian sample books of English wallpaper. These very heavy designs have now been largely superseded by patterns inspired by the folk art of 'Assam, Bengal and Gujarat, and adaptations of Mughal, Rajasthani and Pahari paintings Varanasi sari brocades, deep-coloured and laden with gold thread, are the popular wedding attire for wealthy Indian brides.

work, leaving it an industry dedicated to the decoration of cheap garments for the foreign and domestic markets.

The remaining strengths of the northern textile tradition are the commercial embroidery and weaving of Kashmir and the commercial brocadi weaving of Varanasi. Both have strong mass markets, which provide a base within which textiles, of technical excellence and beautiful design, rival the products of the past.

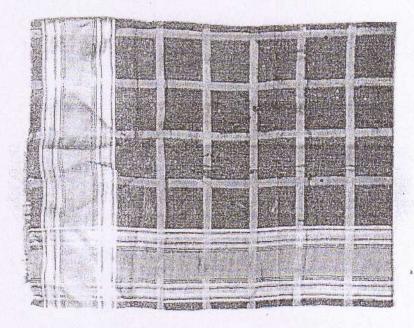
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Bandhani is a type of tie-dye textile decorated primarily by plucking the cloth with the fingernails into many tiny bindings that form a figurative design. The term **bandhani** is derived from the Sanskrit word banda ("to tie").

Ikat-Bandha of Orissa



Ikat or Bandha of Orissa has gloriously woven, blurred, and gem-coloured motifs in silk and cotton. The dominant motifs in this craft include animals and birds, with the traditional designs being fish and conch shell as well as bolmala, chandankora, and saehipar. As the design-type is single ikat, the designs on the material are blurred";" however, this trace-design has a beauty all its own.

The intricate process involves tie and dye --- knotting sections of the yarn before dipping them in colours one at a time, and finally weaving them to produce motifs in multi-hued tones. While Sambalpur is famous for its double-ikat textiles, Sonepur is known for its gold embroidered ones.

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a lovely blend of colours. Here the jacquard loom is in use.

The baluchar style woven in silk is only confined to sarees. It hails originally from a place of the same name in Murshidabad district, West Bengal, and had its heyday under the patronage of the royalty and nobility, later flourished in Vishnupur but is now successfully produced in Varanasi. Very colourful, a real traditional baluchar is said to have 17 colours in it, with butis sprinkled all over. It is a plain woven fabric brocaded with untwisted silk thread but with unique designs. The very early design seems closer to the kantha work. The big pallu which is the main piece is a large panel with mangoes in the centre, bordered by diverse designs, depicting a royal court, domestic or travel scenes with horse riders and palanquins, • the lotus, the bee, and rosette, the stylised peacock, the bridal alpana (floor design) of Bengal, the Taj, etc. The 19th century weaves strangely enough have even European faces mingling with Indian. The sarees are always in dark rich shades, particularly red, purple, and chocolate. The simpler baluchar has small dots or flowers all over with a flowery border and mangoes in the pallu.

Tanchoi is an example of weaving that resembles our fine miniatures. Its origin is traced to three Indian Parsi brothers by the name of Choi who learnt this craft in China and were practising it in Surat, Gujarat. The fabric came to be called after the three Chois, Tan (corruption of tran, three in Gujarati) Choi. Here satin is the base and consists in the merging of the extra weft floats in the fabric.

In tanchoi sarees the designs are always floral with interspersing of birds. The usual ground is bright blue, purple, green or red with areas patterned in tabby weave. Figures of flying birds, paired cocks amidst floral sprays are worked in. In some the pallu is more solidly done with peacocks, baskets or bunches of flowers. The unusual ones have whole hunting scenes spread all over.

Patola is a most colourful and ostentatious

weave with its figured body, and the subtle merging of one shade into another. This technique is practised in a few parts of India with some variations, mostly producing sarees, a few shawls, lungis, kerchiefs, etc. The most renowned among patolas is the one made in Pattan, Gujarat. The yarn used is always silk. The warp colours are dyed in the lightest colour to be used in the flattern, then the portions which are to be the next darker in shade are traced on a bundle of the threads either by charcoal or pencil. The threads within the pattern are then tightly tied with a cotton thread where the marks are made and the formula continued with the threads that are to bear the next shades of the pattern until the darkest shades are reached. The weft is treated in the same way so that while weaving it crosses the warp, each of its colours synchronise with the same warp. In the weaving proper the weft is woven into the warp with extreme dexterity and precision. Thus the desired figures are obtained by juxtaposition of similarly dyed shades on equal lengths of warp and weft, and interlacing them. The pattern is laid facing the sarce side, the border strip being darried within the field to portray the design. Therefore, where animals and birds are depicted, strangely enough, only their feet are seen pointing inwards. Some of the important designs are: rattan chowk, in which diamonds cross with diamonds as they are interspersed around; walnut; narikunja; dancing girl; parrot and elephant; chhabri is a basket made up by four elephants; waghkunjar; tiger-elephant. Then there is a variety of leaf and flower and geometrical patterns. The colours are vivid and pleasantly harmonised.

This technique is named by ethnologists as ikat. This word is supposed to be of Malayan origin but actually the name was given to the technique by the Indonesians. Ikat is the equivalent of the Indian bandhana. When only one side of the warp or the weft is tied, it is a single ikat. But as described above when both are tied it is double ikat. This is now done on a very small scale in Pattan which is said to be its home, in Mensana

Q76

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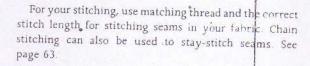
Assembling Your Work

With the fabric cut out, pins ready, and with a threaded needle and a threaded machine waiting to be used, the moment has come to put your creation together. Your next steps will be:

- 1. Stay stitching.
- 2. Tacking.

Stay Stitching

Stay stitching is a line of machine stitching, placed through a single thickness of the seam allowance, $1\cdot 2$ cm ($\frac{1}{2}$ inch) from the seam edge. It is used to hold the original shape of necklines, shoulder lines, waistline and hiplines, and to prevent them from stretching when fitting and handling the garment. Stay stitching is not always a necessary step in dress construction. Some dressmakers like to stay-stitch fabrics which stretch easily or are to be pinned together.



Direction of Stay Stitching

NECKLINE – from shoulder to centre

SHOULDER LINE – from neckline to armhole

WAISTLINE (skirt and blouse) – from side scams o centre

HIPLINE and bias skirt seams – from lower edge to

waistline

'v' NECKLINE - from point of 'v' to shoulder line

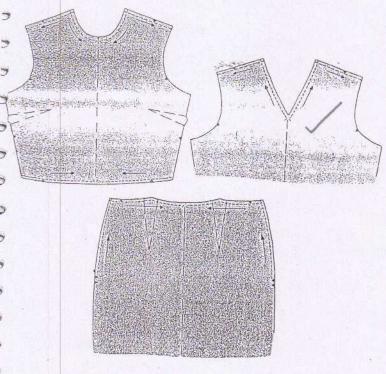
Tacking

Tacking is a temporary stitch made to hold two or more pieces of fabric together before final stitching. It makes it easier to fit and stitch so that a good finish is achieved. Tacking may be done by hand, or by machine. A very simple garment may be pinned together. It is removed after each seam is stitched.

Hand Tacking

Use a long, slender needle and a single strand of thread not more than 75 cm (30 inches) in length and in a contrasting colour so that it can easily be seen in the fabric. You may use 'tacking' thread, which is soft and lightly twisted, or mercerised thread. Use silk thread for fine fabrics when tacking on the right side to hold two or more layers in position during final pressing — for example, along the finished edge of a facing, for a hem and similar details. In these cases silk is better because it does not leave a mark after pressing not mark fine fabrics at the needle puncture.

When tacking sections of a garment, work on a flat surface such as a table or lap board. Place the seam edges together; pin at each end, at notches and at the centre. Then space the pins at equal intervals, working outwards, Place the pins at right angles to the seamline, with heads to seam edge. Do not ease or stretch seam.



Q81.

SKIRTS/CIRCLES AND CASCADES

FOUR SKIRT FOUNDATIONS

Each of the four skirt foundations has a specific name that identifies its silhouette. It is the amount of deviation from the basic skirt that determines the new silhouette.

Straight, or Rectangular, Shape (Basic Skirt)

The skirt hangs straight from hipline to hemline.

A-Shape, or Triangular

The skirt falls away from the hip, flaring out at the hemline, increasing the hemline sweep. (Circular and flared shapes are included in this category.)

Pegged, or Inverted Triangle

The skirt tapers inward from hip level to The pegged silhouette may be achieved by ing waist and hip fullness or by tapering the hip to the hem.

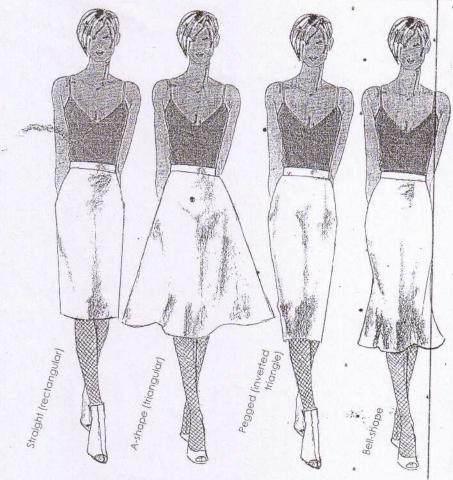
Bell-Shape

The skirt clings to the figure's curves at, about low the hip and breaks into fluid movement the hemline.

SKIRT CHARACTER STICS

Skirts are described in terms of the following areas:

- · The sweep: the width of the skirt at bestime
- Movement: the way a skirt's fullness ready movement of the body.
- The break point: the point at which the breaks away from the body into fluid the breaks.



The Pattern Piece

Each pattern piece contains written directions and symbols such as dots and arrows—a kind of shorthand that's easy to learn and speeds your sewing because it shows you which edges to match and where to position details.

Notches are triangular symbols extending from the cutting line into the seam allowance. To mark notches, cut triangles or snip into the seam allowances along notch lines. If you think you may have to let out a seam after stitching, mark notches by cutting triangular shapes that extend out from the cutting lines.

Letters are printed on each pattern piece so you can tell one from the other. The top of the letter always points to the top of the pattern piece.

Solid lines* show where to position pockets, buttonholes, the waistline, or where to fold the fabric.

Center line* is a broken line that appears on some pattern pieces.

Grainline arrow is used for positioning pattern piece on the correct fabric grain (see above, right).

Lengthen or shorten here lines are two parallel lines which indicate where to make the pattern piece longer or shorter so the finished length will be right without distorting the garment shape.

Cutting lines are solid lines along the outer edge. Follow these lines when you cut your fabric.

Seamlines are broken lines, usually %" (1.5 cm) from the cutting line. When you sew a seam, you are actually stitching two layers of fabric together on the seamline. Multiple-size patterns do not have marked seamlines.

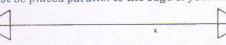
Dots* are circles which mark points to be matched before stitching and the placement of details, such as darts, tabs and belt loops.

Seam allowance is the area between the seamline and cutting line.

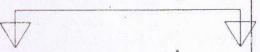
Darts* are shown as V-shaped broken lines with dots. To sew, match the dots, folding fabric with right sides together, and stitch along the broken line. Darts shape fabric to fit over your body curves—bust, hips, shoulders.

Hem tells you how much fabric to turn up for the hem.

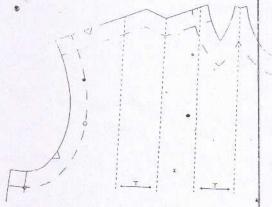
Straight grainline arrows indicate pieces that must be placed parallel to the edge of your fabric.



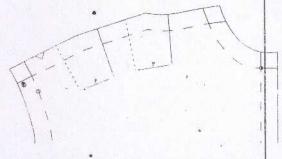
Squared-off grainline arrows indicate pieces that are placed along folded fabric edges.



Tucks* are shown as broken lines with doubleheaded arrows in between, near the end of each tuck. To sew, match the broken lines, folding the fabric with right sides together, and stitch along lines.



Pleats* are shown as broken and solid lines with directional arrows in between, at the end of each pleat. To make a pleat, fold your fabric on the solid line and bring the fold to the broken line. Press. Baste across top of pleat.



The symbols with an asterisk () eventually get transferred onto your fabric; you'll learn more about this on pages 86-88.

(285)

drop shoulder - Shoulder line located below the normal

ease - The even distribution of fullness when one section of a seam is joined to a slightly shorter section without forming gathers or tucks. Used to shape set-in sleeves, the shoulder line and other areas.

ease allowance - The amount added to body measurements to make garments comfortable and allow for movement.

edge-stitch - 1. To stitch close to a finished edge or seam from the right side of the fabric. 2. To stitch close to the edge of a fold after the fabric edge is turned to the underside. Used to finish hems and facings.

embroidery hoop - Two narrow circles of wood, the smaller of which is placed under the fabric and the larger over it on the top side - used to hold fabric taut. facing - The second layer of fabric used to finish neck-

lines, front and back openings and sleeves.

featherbone - A narrow strip of boning used to stiffen the seams and edges of closely fitted garment sections to prevent them from slipping or rolling; for example, the bodice of strapless dresses, and cummerbunds.

fibres - Natural or man-made filaments from which yarns are spun.

finger-press - To press flat (as a turning or seam) using fingers and thumbnail.

finishing - The sewing techniques used in garment construction to finish seams, facings, hems, necklines and other sections.

fly -A neatened opening that conceals the zip or buttons. Generally used in shorts, men's pants and topcoats. footboard - The upright board at the foot of a bed.

gather - To control fullness by a running stitch through the fabric; the thread is fastened at one end and then pulled up from the other end.

grain - In woven fabrics, the lengthwise and crosswise direction of the yarn. The lengthwise yarn forms the lengthwise grain; the crosswise yarn, the crosswise grain. When these two threads or grains are at right angles, the fabric is 'on the true grain'

guidelines - Tacked stitches to be followed for the final stitching (for buttonholes, pockets, etc.).

gusset - A small shaped piece of matching fabric set into a slash or seam for added width and ease. Found at the underarm when sleeve and bodice are cut in one, and in briefs and knickers.

haberdashery - Small sewing needs, such as thread, needles, pins, zips, press fasteners, hooks and eyes, bias binding, etc., available at haberdashery and notion counters in department stores.

headboard – The upright board at the head of a bed. heading - 1. A fabric tuck above the casing or at the top edge of curtains. 2. A narrow edge above a line of gathers that form a frill.

hemline - The line on which the hem is marked and turned to the underside. This line is an even distance from the floor

hem-marker – See skirt marker.

interfacing - A third thickness of carefully selected fabric which is placed between the garment and facins fabrics for added body, shaping and support.

interlining - A fabric placed between the lining and outer fabric. Used in coats, jackets and the like to add warmth or bulk; in bedspreads to give body; is curtains to add body and to prevent light from show ing through and fading the fabric.

intersecting seams - Seams that cross one another whe garment sections are joined together at the waistling shoulder line, set-in sleeve and similar points.

'iron-on' - A term used to describe chemically treate fabric which is joined or applied to another fabric b using a warm iron (for hem facings) also an embroic ery transfer design (on tissue paper) which is place face down on the fabric - the heat of a warm iron the transfers the design to the fabric.

joinings - The points at which one garment section joined to another, such as skirt and bodice.

lap - To extend or fold one piece of fabric or garme section over another.

lapel - The section of a garment which is turned ba between the top button and collar

layout - The position in which pattern pieces are la on the fabric for cutting.

layering - Trimming all seam allowances within a sea to different widths. Layering removes bulk so th the seam will lie flat.

link buttons - Two flat buttons held together by seve threads covered with blanket stitch (as a French ta or button shank) forming a cuff link.

lining - A carefully selected fabric that covers underside of another fabric, adding body to the arti-1. In dress construction, the lining is cut the same the dress fabric and constructed separately. It add finished look to the inside. 2. In failuring, the lin is constructed to fit into the jacket or coat and preve the unfinished seam allowance from showing. 3. home decorating, the lining is used to finish curta end protect the top fabric. It is also used in bedspre. made-to-measure - Professionally made and fitted

ments, loose covers, bedspreads and curtains. markings – The symbols shown on the pattern for da buttonholes, tucks and other construction det They are transferred from the pattern to the fabric means of tailor's tacks, chalk, tackings or tra-

mercerised - A finish for cotton that adds strength lustre and makes the fabric more receptive to d mitre - 1. The diagonal line formed when fabric is jo

miliar with cellulose in the form of such

small holes. In 1855, Georges Audemi that drew synthetic filaments through

ficial glutinous composition, much resemlieved that it was possible to make an "arti-Hooke, the English naturalist. prophesied as long ago as 1664 by Robert the first of the manmade fibers, had been The production of a fiber such as rayon, HISTORY OF RAYONS consequently, these fibers are identified as that has been re-formed, or regenerated; regenerated cellulose fibers. Rayon fibers are made from cellulose superseded by other types. first rayon factory. Yet, it ultimately was the financial support that built the world tained the original French patent and won as the "father of rayon." Chardonnet of from nitrocellulose. He became know duced the first manmade textile fib. 1884, Count Hilain J. Ly years later toward the nitrocellulose process of ma a Swiss chemist, discovered how to ma

there in 1919. Subsequently, cupramtechnique developed in Germany resulted facture, improvements in the spinning not economically competitive to manucellulose rayon. Although it was initially erthes that were superior to those of nitrofor making rayon, which had some propdeveloped the cuprammonium process In 1890, L. H. Despaisses of France

of gums and resins; for example, threads the possibility of making silk filaments out Réaumur, the French scientist, suggested stance it be out of which the silkworm wire-draws his clew.". In 1710, René A. de that excrement, or whatever other subbling, if not full as good, nay better, than

> of States but manufacture was disced in Germany and Japan. at of cuprammonium rayon is still used in 1976. A relatively small rayon was produced in

dischad increased and been given varimademarks, the FTC ruled again in the production and types of maninade cd from cellulose or its derivatives. My from cellulose must be designated use of the name "rayon" for yarns obthat any tiber or yarn produced cherade Commission (FTC) permitted ecognized in 1925, when the Fedanmade textile filaments were offi-

and wood pulp-are used in their manufacture, rather than chemical elements. cause natural materials -- cotton linters rayon and acetate are not synthetic betate products as manmade rather than synthetic. first official designation of rayon and acethe percent of content of each fiber indi acetate must now be labeled as such and ics and garments containing rayon and/or ulose fibers: rayon and acetate. All fabcollulose, the other of a cellulose com-pound. These different compositions 952, there would be two categories of cellave different herefore ruled that as of February 9, ayons: one consisting of regenerated pure hat there were basically two groups of icely. te iron and melt, others would iron it properties. Some rayons would fade dickly than others; some would stick to cite as many as four different types of cularly among consumers, because there ter than others; some would dry more Yon with some similar and some differong garment manufacturers, and par-Over the period of the next fifteen The rules also incorporated the The cause of this lay in the fact In the chemist's terminology however, confusion developed properties. The FTC

> make any required diameter of rayon filaments are combined by twisting to duced. In a subsequent operation, these of equal size are simultaneously proranges from 1 to 20,000, and filaments raw-silk substance spun by the silkworm. is similar to the hardening by air of the is extruded, which is solidified by a liquid

The number of holes in the spinneret

bath as it comes from the spinnerel

that are almost invisible to the naked eye. or alkalies; it is perferated with small holes Through each of the tiny holes, a filament

because that metal is not affected by acids usually made of a platinum-rhodium alloy

neret (see Figure 18-1).

The cap is

the same function as the silkworm's spinis called a spinneret because it performs

about the size of a thimble. This nozzle forced through a metal cap or nozzle

lated in the process of making rayon. berry trees into two fine filaments is small worm transforms the cellulose of nint-

A liquid substance of cellulose is

The natural process by which the vik-

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Mannade fiber -THAPTER IS RAYON TWO INDUCTOR

BASIC METHOD OF PRODUCING RAYON FILAMENT

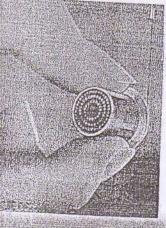


Figure 18-1 The spinnerer that forms the spinning

solution into filaments. (Courtesy Artex Fibers Inc.)

SHIST ITEMNISH & UND

6. (a) What major finishes are applied to countries do they give to the varn? 5. Distinguish between triacetate and co-What variations are made in prode framents? (b) What char-

8. Fabrics of Amel triacetate are considnacetate fabrics? (b) How effective and urable are they? 7. (a) What major finishes are applied to

icetate fabrics? (b) How effective and du-

able are they?

9. Name some fabrics (a) that could be rade of triacetate. Name uses of each. pade of acetate and (b) that sould be red to be easy-care material. Why? . What would be the characteristics of

> wood, (e) triacetate and rayon? (c) Inaccitate and cotton, (d) translute acctate and wool, (b) acctate and me

SUGGESTED ACTIVITY

Evaluate this information. another fiber. Make a chart company the properties described on the libe fiber, and a blend of Amel triacetate fying an acetate fabric, an Arnel tring fabric, a blend of acetate and and Obtain one advertisement or label

properties. varieties of nylon with certain differing sons, it is evident that variations are possimay not be easily recognized by layperlinkages are attached to two aromatic rings." -. While this chemical definition ble and that there could be and are many which less than 85 percent of the amide is a long-chain synthetic polyamide in ederal Trade Commission (FTC), nylon in is not a trademark—it is a textile, just impounds classified as polyamides. Nyhe word "nylon" is a generic term that getate are textiles. As defined by the bignates a group of related chemical cotton, linen, wool, silk, rayon, and

HISTORY OF NYLON

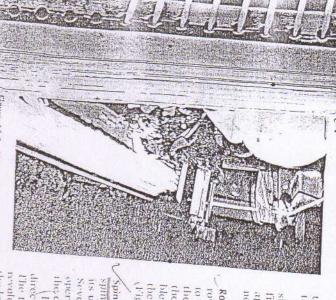
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tion of nylon belongs to E. I. du Pont de Nemours & Co. More specifically, the credit belongs to Dr. Wallace H. Carothers and his staff of organic chem-Responsibility for the discovery or inven-

a more active program of research to proment. Realizing that there was a need for ists of that company's chemical depart ducted, this fundamental research aimed chemical exploration in 1928. Deviating molecules join to form "giant" molecules, primarily to develop basic knowledge of the future growth of the company, Du vide new developments that would insure nal length. This strand was strong, lusdrawn out faither to several times its origifiber. When it cooled, the fiber could be molten, could be drawn out into a long discovered that one polymer, which such as those that occur in cotton, silk, He wanted to know how and why certain from the applied research previously con-Pont began a long-range program of looked like clear, heavy molasses when search, one of Dr. Carothers's assistants and rubber. After many months of rebetter understanding of polymerization Carothers was interested in obtaining a chemical materials and processes.

ne polyamine

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drawn to form a single sever unit, where the shares we pulled and are combined and lost irra a distrum-Figure 16.9 Slivers now the

direction through the traveler, a small inverted U-shaped device they cotton system the most common technique is ring spinning. operation. For cotton yarns as well as for other fibers processed on us ultimate diameter, and the desired amount of twist is inserted. Several methods are used for imparting twist during the spinning spinning speration. In the spinning frame the yarn is stretched to Spinning In ring spinning, the drawn-out roving is guided in a downward The final process in the manufacture of yarn is the

However, yarns made by the flyer process are smooth and have a but it is seldom used today because it is slow and production is low. on the ring. This process imparts the desired twist. The yarn as it The flyer process was the original method of continuous spinning comes from the spinning machine is a single yarn. the latter has to pass through the traveler, which carries it around revolutions per minute. As the spindle revolves to wind the yarn, The traveler moves around the ring at the rate of 4,000 to 12,000 Other methods of spinning include the flyer and cap systems.

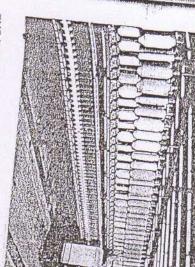
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together and drawn out into a new sliver no larger than one of

no twist will have been introduced into the yarn. (Fig. 16.9). approximately 50 percent polyester and 50 percent cotton. As yet, libers for each sliver of polyester fibers will produce a blend of slivers will be different fibers. For example, one sliver of cotton If the yarn is to be an intimate blend of two or more fibers, the

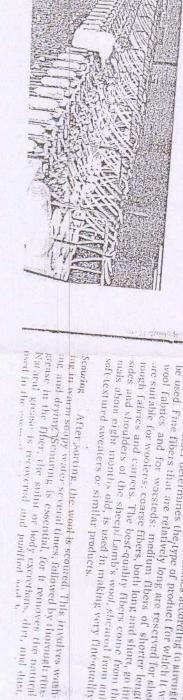
the slivers are doubled and redrawn duting the roving operation blunding of the yarn depend to some degree on the number of times then ready for the spinning Trame! The fineness and intimacy of the roving frame, a slight twist is imparted to the strand, and * is to 1/4 of its original diameter. As the roving strand is ready to leave roving machine, where it is Roving (The sliver from the drawing machine is taken to the



THE WOOL SYSTEM

sted yarns use the longer wool fibers. Woolen yarns use the shorter length of wool fibers, whereas we to produce smoother and finer-quality yarns. Another differen between woolen and worsted yarn is the fiber length hwolve combed cotton yarns in that the fibers are combed after eards drawn, and spun. Yarns made by the worsted system are similar to that used in spinning carded cotton, where the yarns are cure wooden or the worsted systems. The wooden system is compare Wool and man-made fibers can be spun into yarns hy

ing in warm soapy water several times, followed by thorough russ Scouring. After sorving, the wool is scoured. This involves wash soft-textured sweaters or similar products. mals about eight months old, is used in making very fine-quality sides and shoulders of the sheep! Lumb's wool, sheared from not rough fabrics and carpets. The best-quality fibers come from the are suitable for woolers; coarse fibers, both long and shore, go litt. wool fabries and for worsteds; medium fibers of shorter lengt be used. Fine fibers that are relatively long are reserved for abus or width and length of fiber and sometimes according to strength The grade of fiber determines the type of product for which it wi pulls the fleece apart and sorts the fibers according to linene, Each fleece is carefully opened, and an expart grade



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publicity Nonpaid messages about a company and its policies, personnel, activities, or services

Quick Response (QR) An attempt to speed ordering and distribution between all levels of the industry via electronic data interchange

quotas A means of regulating exports and imports. -

ramie. A natural vegetable fiber from the stem of a nettlelike shrub.

rayon A man-made fiber made from rejuvenated cellulose.

ready-to-wear Apparel that is mass produced (opposite of custom made)

receiving. The area of the store where packages are opened, checked, and marked.

repeat The repetition of a print in fabric design.

resource Term used by retailers for a manufacturer, wholesaler, vendor, or distributor. A company that sells goods in the market of finished apparel.

retailing The business of buying goods at wholesale markets and selling them at retail to the ultimate consumer.

retail price The wholesale price plus a markup covering the retailer's operating costs and a profit.

sales per square foot. Amount sold per square foot of store floor space; measure of productivity.

sample The trial garment or prototype

sample cut A 3- to 10-yard length of fabric used by the design department to make up a trial sample garment.

Savile Row Street in London famous for its men's tailors.

seamless distribution. Using electronic data interchange to create a smooth distribution system that saves money and time.

selected distribution Limiting the number of stores that may buy merchandise to maintain exclusivity.

sell through The ability of a line to sell regularly and steadily at full price.

Seventh Avenue The main street of New York City's

garment district; the term is used to represent the whole district

showroom. A place where sales representatives or management show a line of merchandise to potential buyers; called salon de presentations in

signature collection A collection using the designer's name as the label.

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silhouette Outline of a garment, silk. The only natural fiber in filament form; obtained from the cocoons spun by silkworms.

soft goods Fashion and textile merchandise.

sourcing Worldwide search for the best available fabrics or garment production at the best price.

spandex A man-made fiber of long-chain syn thetic polymer comprised of stretchable segmented polyurethane; known best by the DuPont brand name of Lycra.

special events Activities set up to attract customers to a selling place.

specialty store A retail establishment that handles narrow categories of goods, such as men's apparel, women's apparel, or shoes.

spinning. The process of extruding and hardening man-made fibers, the process of drawing and twisting staple fibers together into yarn or thread

staple goods Goods for which there is a demand that continues over many seasons.

stock turnover The number of times a store's merchandise stock is sold and replaced in a given period.

store image. The character or personality that a store presents to the public.

style Certain characteristics that distinguish a garment from other garments; a particular look in fashion.

style ranges Categories of styles that appeal to different consumers.

list A fashion expert; generally selects colors, prints, or styles for presentation or prepares fashion merchandise for photographic presentation in an advertisement or catalog.

tanning. The process of transforming animal skins into leather.

target market. The group of consumers to whom a producer, manufacturer, or retailer aims products, services, and advertising.

textile fabrics Cloth made from textile fibers by weaving, knitting, felting, crocheting, laminating, or bonding

texture The surface interest in a fabric.

texturing The process of crimping or modifying continuous filament yarn to increase cover, abrasion resistance, warmth, resiliency and moisture absorption or to provide a different surface texture.

toile (twahl) French word for a muslin sample garment.

trademark Company's individual registered mark and name for a product.

trend buying Buying from new resources to obtain fashion newness.

trendsetter A designer or fashion leader who sets a fashion direction that others follow.

trunk show. Show of designer clothes that moves from store to store, often accompanied by a personal appearance by the designor.

unit control Systems for recording the number of units of merchandise bought, sold, in stock, or on order.

unit production systems (UPS) Computer guided conveyors that move garments automatically from