

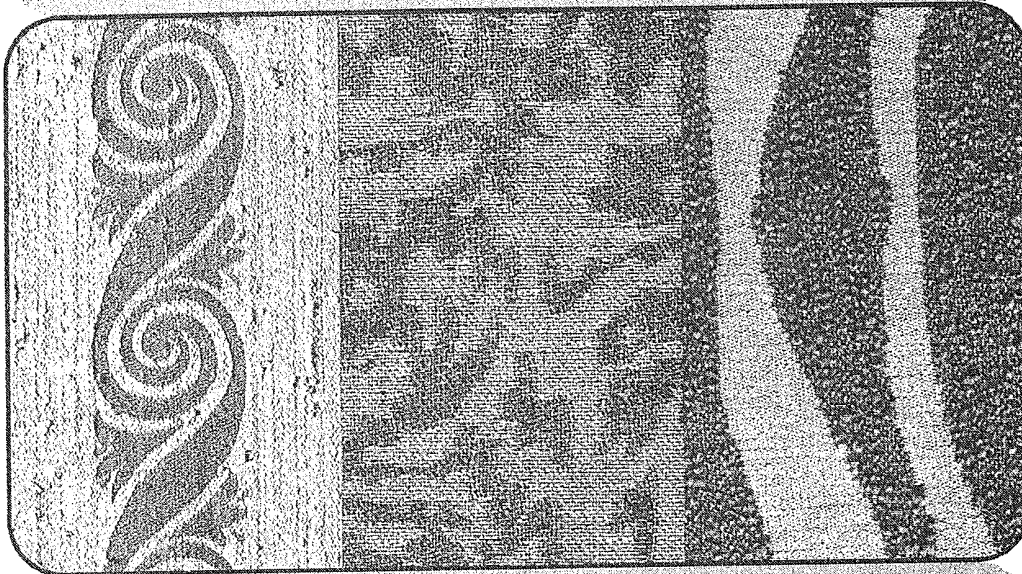
fifth edition

TEXTILES

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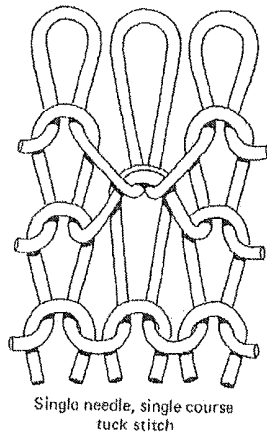
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Single needle, single course
tuck stitch

Fig. 25-8 Tuck stitch. (Courtesy of Knitting Times, official publication of National Knitted Outerwear Association.)

The word *jersey* comes from the Isle of Jersey in the English Channel. It is applied to (1) the plain weft-knit stitch, (2) a single-knit fabric—either warp or weft knit, and (3) a pullover sweater.

The single jersey structure or plain knit is widely used because it is the fastest method of weft knitting and is made on the least complicated knitting machine.

End uses for plain knit structures include hosiery, underwear of cotton or blends, shirts, T-shirts, dresses, and sweaters.

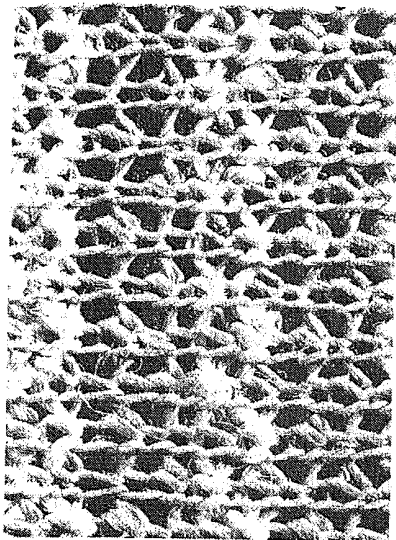
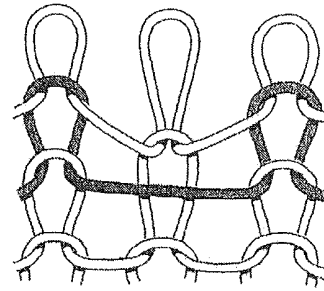


Fig. 25-9 Fabric knitted with tuck stitch.



Float Stitch

Fig. 25-10 Float or miss stitch. (Courtesy of Knitting Times, official publication of National Knitted Outerwear Association.)

Variations in plain knit are made by programming the machines to knit stitches together, to drop stitches, and to use colored yarns to form patterns or vertical stripes. Extra yarns or slivers are used to make terry cloth, velour, and fake fur fabrics.

Two stitches commonly used to make jersey variations are tuck stitch and miss stitch. *Tuck stitch* receives a new yarn on a needle but does not lose its old loop and the accumulated yarns are knitted off later (Figure 25-8). Fabrics have a lofty appearance and soft hand. Fabrics are less extensible. Tuck stitch is used to create blisters or special effects and to secure laid-in yarns or long floats of yarns on the wrong side of the fabric. Figure 25-9 shows tuck stitches in fabric. *Miss stitch* or float stitch results when a needle is held in a nonworking position as the yarn is placed on the working needles. As the yarn is carried past the working needles a float (much like that in woven fabrics) is made (Figure 25-10). It is used to carry colored yarn on the back of fabric for knitted-in designs. Miss stitches make fabrics much less extensible.

Rib Structure. A rib structure is made of face wales and back wales. The lengthwise ridges are formed on both sides of the fabric by pulling loops first to the face and next to the back of the cloth. In hand knitting, ribs are made by knitting and purling. These may be in various combinations 1×1 , 2×2 , 2×3 , and so on (Figure 25-11). Figure 25-12 shows a T-shirt fabric in rib knit.

Rib knits have the following properties: (1) they have the same appearance on the face and back, (2) the fabric has twice the extensibility crosswise as that of single jersey, (3) they do not curl at the edges, (4) they run, (5) they unravel

HANDBOOK OF TECHNICAL TEXTILES

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