Brief history of Weaving

- ~7000 BCE, earliest woven fabric found in Anatolia (Turkey)
- Also appears in China, Peru and Egypt
Weaving Terminology

- warp
- beam
- shedding device
- heddle (normal position)
- shuttle
- weft
WEAVING TECHNIQUES

Fig. A Tabby Weaving
Fig. B Bubbling
Fig. C Egyptian Knot

Fig. D Soumak
Fig. E Rya on a Pencil
Fig. F Rya (Shag)

Fig. G Spanish Lace
Fig. H Interlocking
Fig. I Diagonal Interlocking
1. A basic draft

4 4
3 3
2 2

= the "you are here" square
Jacquard Loom - 1803
Holes in the cards control which threads are raised for weaving the pattern.
Weaving and Computing

- Using punchcards to store and control sequence of operations
- 1837: Charles Babbage and Ada Lovelace, Analytical Engine, first general purpose machine
Figure 6-3.—Magnetic core showing “X,” “Y,” inhibit, and sense lines.

Magnetic Memory Core - An Wang (1955)
Woven Pressure Sensor