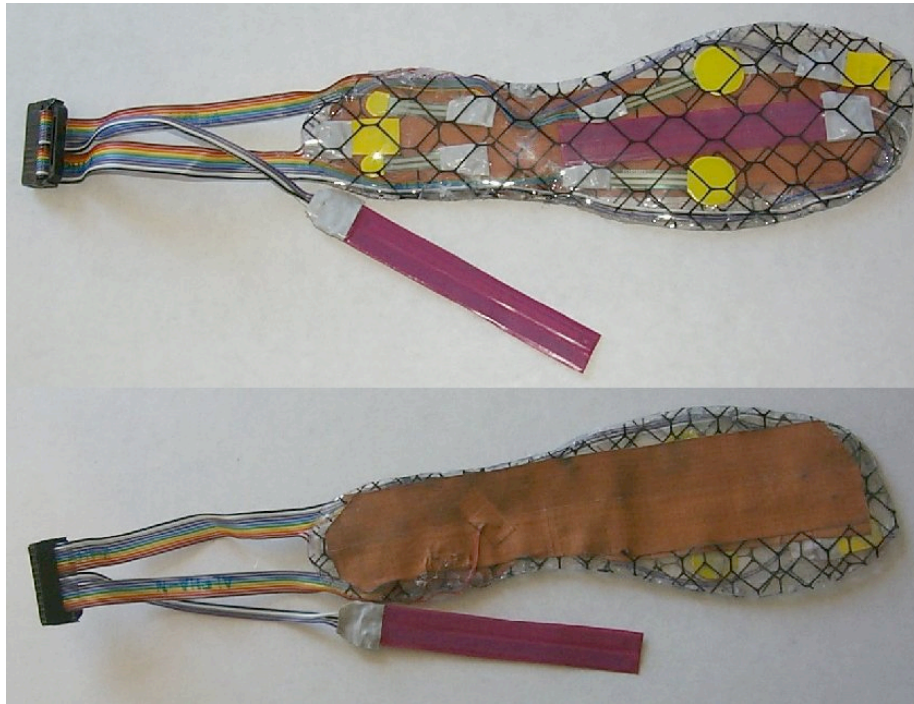


Interactive Therapy with Instrumented Footwear



Measurement

Laminated between two 0.02 inch sheets of clear Type 1 PVC heavy-duty film sheets:

- 4 FSR pads (force sensitive resistors that measure continuous pressure),
- 2 PVDF strips (polyvinylidene fluoride that measures dynamic pressure),
- 2 pairs of resistive bend sensors.

Knowledge:

FSRs provide a coarse measurement of the pressure distribution.

Each pair of bend sensors provides information about bi-directional bend. One pair provides information about the extent of plantarflexion or dorsiflexion at the ankle.

The other pair of bend sensors provides information about the extent of plantarflexion or dorsiflexion at the metatarsals during walking