



## *Materials in Communication*

- ❖ Single crystal silicon wafers, 0.75mm thick are doped with other elements and used in microchips
- ❖ Modern microprocessors are equivalent to over 40 million transistors
- ❖ Optical fibres made from silica, which are thinner than a human hair, are stronger than steel of the same diameter
- ❖ Optical fibres are used to carry digital information over large distances and work by total internal reflection
- ❖ A wide variety of polymers are used for computer and mobile phone casings as they can easily be moulded in to complex shapes and can be coloured