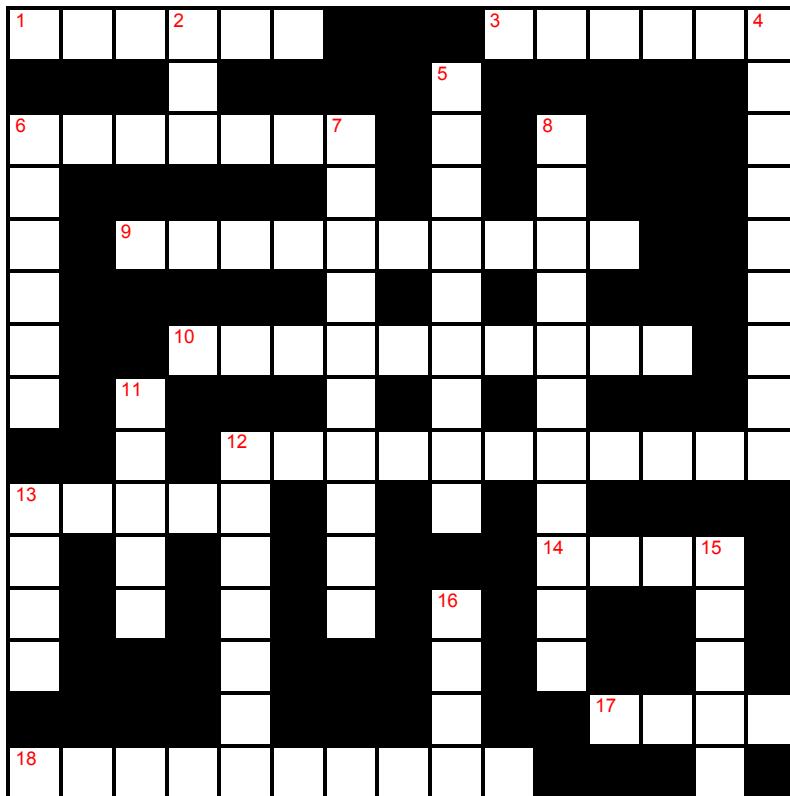


## Fibre\_optics\_15x15\_2008-10-12

B.B. Huria



### Across

- 1 A format that uses continuous physical variables such as voltage amplitude or frequency variations to transmit information. (6)
- 3 Firm connection between two optical fibres. (6)
- 6 A passage (a pipe or tunnel) through which water or electric wires can pass. (7)
- 9 A plastic tube that holds a number of fibres. (6,4)
- 10 The light energy lost in an optical fibre due to impurities in the glass. (10)

- 12 A two-fibre cable suitable for duplex transmission. (6,5)

- 13 An assembly of bound or sheathed optical fibres. (5)
- 14 A unit of signalling speed. (4)
- 17 A single electromagnetic wave traveling in a fibre. (4)
- 18 The distance between two successive similar points of an electromagnetic waveform. (10)

### Down

- 2 A semiconductor diode that spontaneously emits light when current is applied. (3)
- 4 A long slender medical instrument for examining the interior of a bodily organ or performing minor surgery. (9)
- 5 A device that combines two or more signals into one output. (9)
- 6 The process of separating an optical fibre by a controlled fracture of the glass. (6)
- 7 Three-port optical coupler. (3,7)
- 8 A fibre optic cable containing both multimode and single-mode fibres. (6,5)
- 11 Thin filament of glass. (5)
- 12 Full form of dB, a logarithmic unit of relative power. (7)
- 13 The light carrying central part of the optical fibre. (4)
- 15 An electronic device that lets current flow in only one direction. (5)
- 16 Hardware connection point at each end of the link. (4)