

Canadian researchers have developed the Telidon two-way television system that has been described as the best technology of its type in the world. The system allows the user access by telephone to information stored in a myriad of data banks. This data is displayed in written or graphic form on a modified television screen in the home. Telidon could transmit data by coaxial cable, telephone or by optical fibre. And Canada is also a leader in developing optical fibres.

Fibre optics involves the transmission of information and voice communication through glass fibres by means of light pulses. Lasers carry these light pulses over extremely long distances and the signals generated in this manner are not affected by electrical interference. Nor do they suffer any appreciable loss in strength. A hair-thin fibre can carry between 50,000 and 500,000 one-way voice circuits.

80 Geophysical exploration and remote sensing are worthy of note as are Canada's scientific contri-

Hair-thin optical fibre waveguides provide many times the capacity of conventional coaxial cable.

