

The first problem solved by fiber optic communication

The problem was the impurities in glass, which caused the signal loss scientists call "attenuation." The challenge was finding a "low-loss fiber" - glass that could carry light for long distances without an ...

skew rays: In a multimode optical fiber, a bound ray that travels in a helical path along the fiber and thus (a) is not parallel to the fiber axis, (b) does not lie in a meridional plane, and (c) does not intersect the ...

Researchers at Corning Glass Works --notably Robert Maurer, Donald Keck, and Peter Schultz --developed the first practical optical fiber with light loss below 20 decibels per kilometer. ...

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The dotcom/fiber optic bubble of the late 1990s burst in 2001, causing a 70% decline in the fiber optic industry that took nearly a decade to recover. The burst also left much dark fiber, as ...

Invented the photophone, a device to carry voice signals through the air instead of wires. While the photophone did not materialize, it became the forerunner to a networking technology called Free ...

In 1970, researchers Robert Maurer, Donald Keck, and Peter Schultz at Corning Glass Works created the first low-loss optical fiber (attenuation of 20 dB/km). This breakthrough made long ...

The fiber-optic tether is the defense industry's latest answer to electronic warfare against drones. A physical wire. In 2026, the most advanced militaries on Earth are solving a software ...

Erbium-doped fiber amplifiers (EDFAs) were first demonstrated in 1987, overcoming the distance limitations of optical fiber networks. EDFAs amplify signals within the fiber itself, eliminating ...

Optical fiber had been used for years for transmitting light and images, but it was not until 1966 that Dr. Charles Kao at STL in the United Kingdom proposed the way to make low-loss fiber suitable for ...



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