

## **FIBER BRAGG GRATINGS**



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### **Fiber Bragg grating Wikipedia**

A fiber Bragg grating (FBG) is a type of distributed Bragg reflector constructed in a short segment of optical fiber that reflects particular wavelengths of light and transmits all others. This is achieved by creating a periodic variation in the refractive index of the fiber core, which generates a wavelength-specific dielectric mirror. A fiber Bragg grating can therefore be used as an inline

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A fiber Bragg grating is an optical element inscribed in an optical fiber, which is widely used as a sensing instrument. Although fiber Bragg gratings are commonly used for applications such as

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### **Proximion**

About Proximion. Proximion is the world leader in design and manufacturing of advanced Fiber Bragg Gratings (FBGs). We improve our customers' products and systems by bringing this versatile technology to challenging applications within telecommunications, heavy industry and aerospace.

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### **Bragg's law Wikipedia**

In physics, Bragg's law, or Wulff Bragg's condition, a special case of Laue diffraction, gives the angles for coherent and incoherent scattering from a crystal lattice. When X-rays are incident on an atom, they make the electronic cloud move, as does any electromagnetic wave. The movement of these charges re-radiates waves with the same frequency, blurred slightly due to a variety of effects.

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### **Fiber Bragg Grating FBG sensor principle**

Fiber Bragg Gratings are made by laterally exposing the core of a single-mode fiber to a periodic pattern of intense ultraviolet light. The exposure produces a permanent increase in the refractive index of the fiber's core, creating a fixed index modulation according to the exposure pattern.

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**Professor Kenneth Grattan FEng City University of London**

Professor Kenneth Grattan FEng, Royal Academy of Engineering - George Daniels Professor of Scientific Instrumentation, is an academic at the School of Mathematics, Computer Science and Engineering of City, University of London.

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