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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. Abstract. Structural Health Monitoring (SHM) aims to develop automated systems for the continuous monitoring, inspection, and damage detection of structures with minimum labour involvement. Position, velocity, and timing (PVT) signals from the Global Positioning System (GPS) are used throughout the world but the availability and reliability of these signals in all environments has become a subject of concern for both civilian and military applications. High Temperature Sapphire Fiber Cladding. Contact: Stephen C. Bates Thoughtventions Unlimited, LLC 40 Nutmeg Lane Glastonbury, CT 06033. ABSTRACT. Sapphire fibers are well suited to the task of sensing harsh environments, tolerating temperatures well above 1500°C and combustion environments.