

Localization Problem in Optical Fiber Sensors

Authors : M. Zyczkowski, P. Markowski, M. Karol

Abstract : The security industry is making many efforts to lower the costs of system installation. However, the dominant technique is the application of fiber optic sensors. It is necessary to determine the location of the disorder of long optical fiber cables. For a number of years, many research centers developed their own solutions. The article presents the construction of the sensor systems with the possibility of disorder location. We present a methodology for determining location of the disorder. The aim of investigations is to answer the question of which of optical sensor configuration offer the best performance for location of the disorder.

Keywords : fiber optic sensor, security sensor, fiber cables, system installation

Conference Title : ICPOQE 2014 : International Conference on Photonics, Optoelectronics and Quantum Electronics

Conference Location : Bali, Indonesia

Conference Dates : October 09-10, 2014