

2014

# APPLICATION OF OPTICAL FIBER IN INDUSTRY

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**Abstract :** This work presents a study on optical fiber sensors and their importance in various fields. Despite the existence of electrical sensors used through many years in measuring physical and electrical phenomena but there are still problems such as transmission losses, susceptibility to electromagnetic interference (noise) ..... etc.. [1]. which makes them less efficient use. To solve these problems and saw the need for sensors in the industry, researchers found that the most excellent solution is to be replaced by optical sensors that are now used in most systems, instrumentation as well as communication systems and control.

**Keywords :** fiber optic sensor, optical fibre, waveguide.