Orissa Journal of Physics
ISSN 0974-8202

Vol. 27, No.1
February 2020
pp. 71-78

Modern Optical Fiber – Communication Splitter Transmitter Module

R R RATH[1] and B R MOHAPATRA[2]

[1]*Asst. Prof., Department of Electronics & Communication Engineering, NM Institute of Engineering and Technology, Bhubaneswar, India, rrretc1@gmail.com*

[2]*Faculty of Physics, NM Institute of Engineering and Technology, Bhubaneswar, India, brmohapatra2@rediffmail.com*

Received: 22.11.2019 ; *Revised : 12.12.2019* ; *Accepted : 5.1.2020*

Abstract. In this paper, we review both the principles and applications of the fibre Sagnac interferometer. The background theory highlights the need to understand the conditions for reciprocity within the interferometer another through them. The electromagnetic energy traveled, along with the lengths of these cables and was confined in between the two metallic layers. These cables had a loss figure network. The applications range from the expected gyroscopes into the novel hydrophone arrays and intruder detection systems. Immediately its potential for gyroscopic measurements became apparent, and since the first demonstration, substantial research and development investment has evolved a diversity of rotation measuring instruments.

Key Words : Fiber-optic sensor, a chemical sensor, tapered optical fiber, optical chemical sensor, physicochemical transducer.

[Full Paper]