

Quasi-Distributed Intrinsic Fabry-Perot Interferometric Fiber Sensor for Temperature and Strain Sensing

Zhengyu Huang

Dissertation submitted to the Faculty of the
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of

Doctor of Philosophy
in
Electrical and Computer Engineering

Dr. Anbo Wang, Chairman
Dr. Gary R. Pickrell
Dr. Ira Jacobs
Dr. Yilu Liu
Dr. Randy Heflin

February 2006
Blacksburg, Virginia

Keywords: Fiber optic sensors, Temperature, Strain, Fabry-Perot, Quasi-Distributed, interferometry

Copyright 2006. Zhengyu Huang