

Effects of Proton Irradiation on the Mechanical and Physical Properties of Carbon Nanotube Based Composites

Anthony J. Nelson

Thesis submitted to the faculty of the Virginia Polytechnic Institute and State University in

partial fulfillment of the requirements for the degree of

Master of Science

In

Engineering Mechanics

Marwan Al-Haik, Chair

Mark Pierson

Scott Case

December 4, 2013

Blacksburg, VA

Keywords: Carbon Nanotubes, Proton Radiation, Radiation Shielding, Nanocomposites

The purpose of my ETD was purely academic and educational, with no commercial value. All of the images used came from either published journal articles or books. They were all either plots of data or schematics. My use of the copyrighted material will in no cases affect the potential sale of the copyrighted work.