

# **Analysis and Modeling of Snap Loads on Synthetic Fiber Ropes**

By:

Christopher Michael Hennessey

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  
CIVIL ENGINEERING

Approved by:

---

Raymond H. Plaut, Chairman

---

Thomas M. Murray

---

Finley A. Charney

November 2003  
Blacksburg, Virginia

Keywords: Snap Loads, Synthetic Fiber Ropes, Hysteresis, Drop Tests, Cables