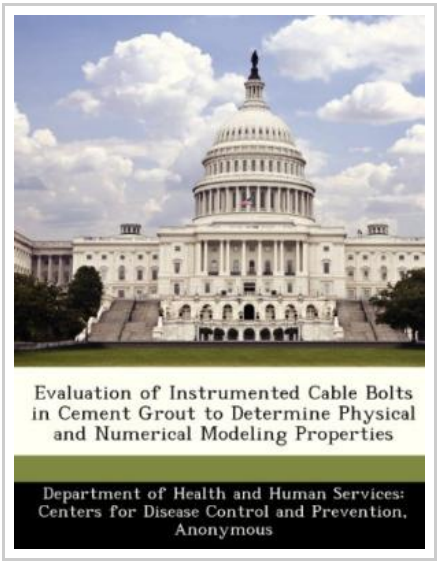

Evaluation of Instrumented Cable Bolts in Cement Grout to Determine Physical and Numerical Modeling Properties (Paperback)

By -

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Whereas many researchers and mine engineers have conducted tests on cable bolts using various grouts, water: cement ratios, and physical modifications of the cable to determine the load-carrying characteristics of a bolt, few studies have been conducted on cable bolts fitted with internal instruments. Those studies that have been done have concentrated on cable response averaged over significant (6.1 m) cable lengths. Researchers at the Spokane Research Laboratory (SRL) of the National Institute for Occupational Safety and Health in Spokane, W A, are investigating the physical properties of cable bolts by replacing the conventional king wire with a modified king wire on which strain gauges have been installed. A numerical analysis was performed to match laboratory results. Loads calculated by the model were then compared to loads measured in the laboratory on 1.83-m-long cables grouted into two 0.91-m-long pull-tube assemblies. Load along the cable was monitored with 20 strain gauges installed along the length of the cable. This paper documents test results on these modified cable bolts. The instrumented cable bolt provided reproducible point measurements of cable load...

Reviews

Undoubtedly, this is the finest job by any article writer. it had been writtern very perfectly and beneficial. Its been printed in an exceedingly simple way in fact it is only following i finished reading this ebook by which basically modified me, modify the way in my opinion.

-- ***Lane Dicki***

This publication will never be effortless to get started on reading through but very entertaining to read through. It normally is not going to expense too much. I discovered this publication from my dad and i encouraged this book to find out.

-- ***Otilia Schinner***