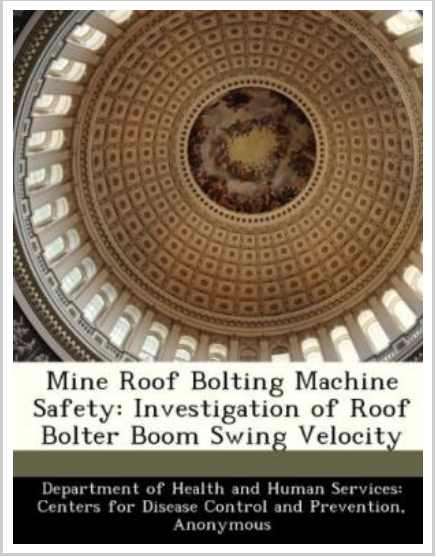

Mine Roof Bolting Machine Safety: Investigation of Roof Bolter Boom Swing Velocity

By Department of Health and Human Services: Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health (NIOSH)

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.An analysis of accident/injury data for 2001 through 2005 from the Mine Safety and Health Administration (MSHA) revealed that powered machinery accounted for nearly 40 of the total underground coal injuries reported and 62 of all fatalities. Underground coal miners work in an environment with limited space for lateral movement and in awkward postures, including kneeling on one or both knees. During informal discussions, MSHA and the United Mine Workers of America expressed concerns about the velocity of appendages on machines used in such environments. This report describes a study of operator movement relative to the motion of a roof bolting machine boom arm. This work was aimed at reducing the risk of injury to underground coal mine workers from moving machinery. The study used motion capture technology to evaluate human movement in restricted heights and postures while controlling a mockup of a roof bolter boom. Results suggest that boom horizontal swing velocity is an important factor in determining operator safety from pinch point and crush hazards during the boom positioning phase of the bolting sequence. The working...

Reviews

This is the finest book i have got study till now. It usually does not price a lot of. I found out this publication from my i and dad encouraged this book to understand.

-- ***Jamil Collins***

Absolutely among the best book I have possibly go through. I have go through and that i am certain that i am going to gonna read through once again again in the future. I am just delighted to tell you that this is basically the finest book i have got go through within my personal existence and could be he finest book for ever.

-- ***Brian Bauch***