

Title: Research on avalanche risk assessment method in heavy snow (2)

Abstract: To investigate the phenomenon in which accumulated snow on slopes cascades through avalanche fences and onto roads, data analysis of avalanches in Hokkaido and field tests were conducted, and technical materials were prepared based on the results. The analysis revealed that avalanches with slip-through phenomena (which have often been reported in Hokkaido in recent years) were observed in relatively limited areas, and tended to occur in conditions of low temperature, weak wind and high snowfall intensity. The field test results indicated that the method of installing mesh panels on avalanche fences was effective in preventing the slip-through phenomena. Based on the above results, technical materials were prepared to serve as a reference for road administrators in taking measures against avalanches.

Key words: avalanche, road, avalanche fence, slip-through phenomenon, technical materials