

Workload Reduction for Younger and Older Workers with Synthetic Rope

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Abstract:

Describes research on workload reduction for logging workers replacing steel wire rope with synthetic rope in typical logging tasks. Over half of Oregon loggers are over age 45 and can benefit from improved materials. Research shows heart rate reductions for younger and older workers who replace steel rope with synthetic rope that weighs about 1/9 of steel yet is equally strong. Economic benefits are also documented even though synthetic rope is more costly. Future developments are outlined to further make improvements.