

# Wet End Control Applications using a Multivariable Model Predictive Control Strategy

Stephen Chu, P.Eng.

## ABSTRACT

This paper discusses the use of a SpectraFoil MD sensor on a fine paper machine to monitor the pre Dandy Roll consistency and the use of this data in an overall control scheme designed to increase sheet filler content (measured at the pre size press scanner) while maintaining online sheet formation within a desired range. The control scheme is based on a multivariable model predictive control strategy. The paper will discuss the key manipulative variables and controlled variables used and the results obtained.