Report Title

1 Introduction

Generalized Maxwell Slip (GMS) model [1] with Friction force \mathcal{F}_f equation:

$$F_f(t) = \sum_{i=1}^{N} F_i(t) + \sigma_2 v(t)$$
 (1)

State equations:

$$\frac{dF_i}{dt} = \operatorname{sgn}(v)C\left(\alpha_i - \frac{F_i}{s(v)}\right) \tag{2}$$

References

[1] F. Al-Bender, V. Lampaert, and J. Swevers, "The generalized maxwell-slip model: a novel model for friction simulation and compensation," *IEEE Trans. Automat. Contr.*, vol. 50, pp. 1883–1887, Nov. 2005.