# SensorsSignalsReport

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## 1 Introduction

Second Order Transfer Function

$$c\ddot{y}(t) + b\dot{y}(t) + ay(t) = e\dot{u}(t) + fu(t) \tag{1}$$

Solving via Laplace:

$$\frac{Y(s)}{U(s)} = \frac{es + f}{cs^2 + bs + a} \tag{2}$$