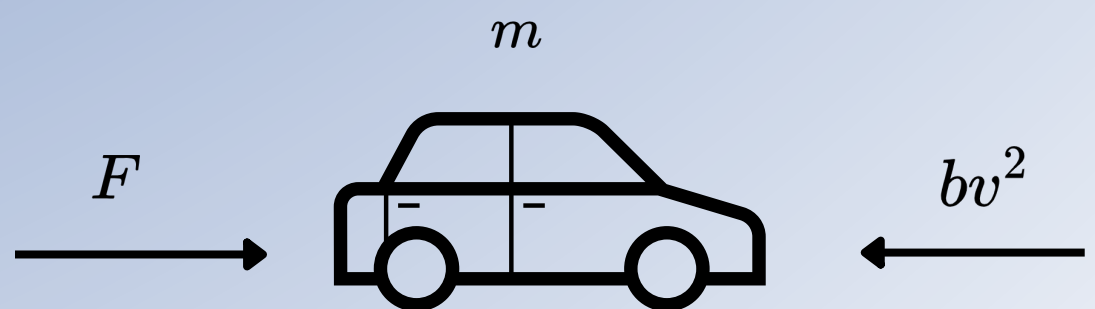
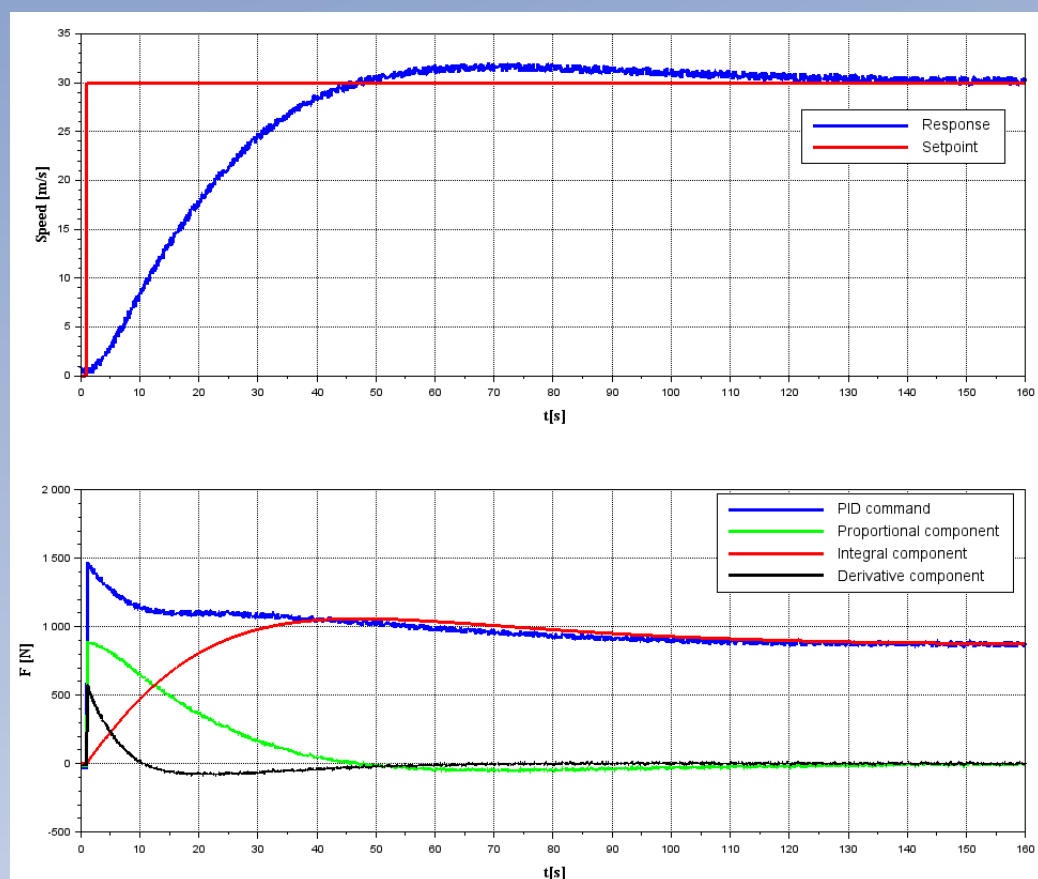
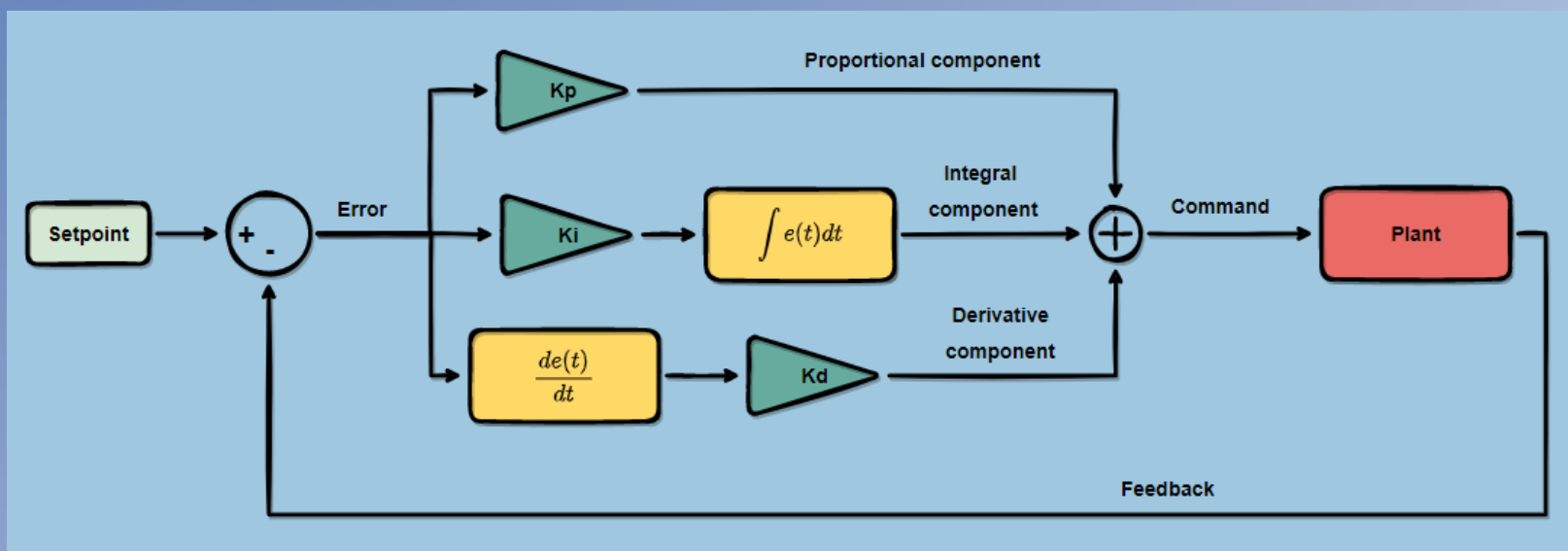
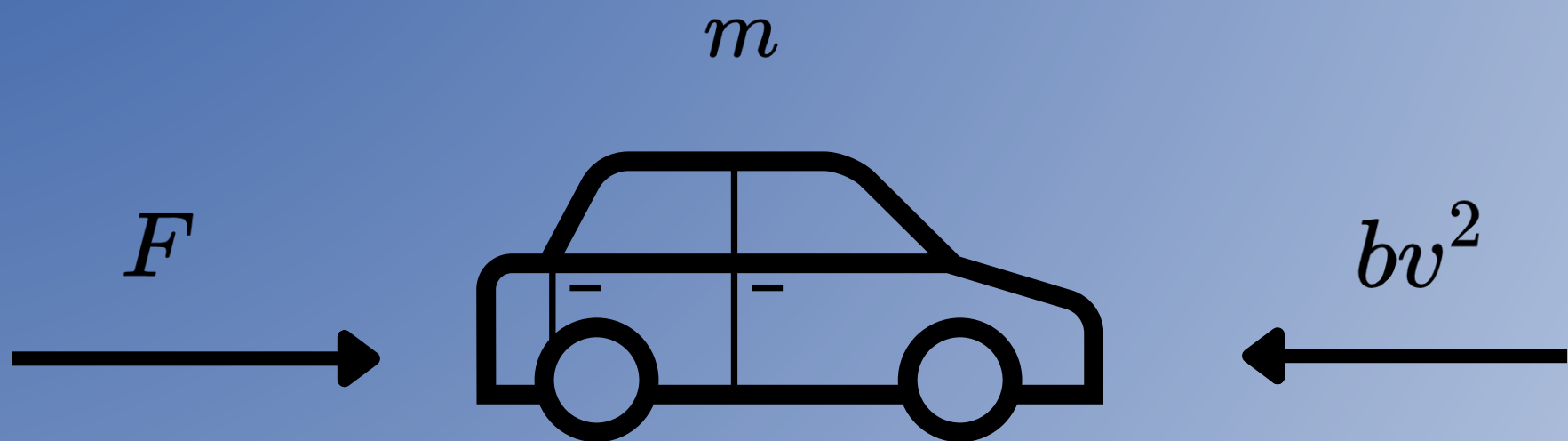


PID Component Analysis



Plant



The plant used in this example is the model of a car of mass m , pushed by a force F and subject to aerodynamic drag $-bv^2$.

The dynamic equation is:

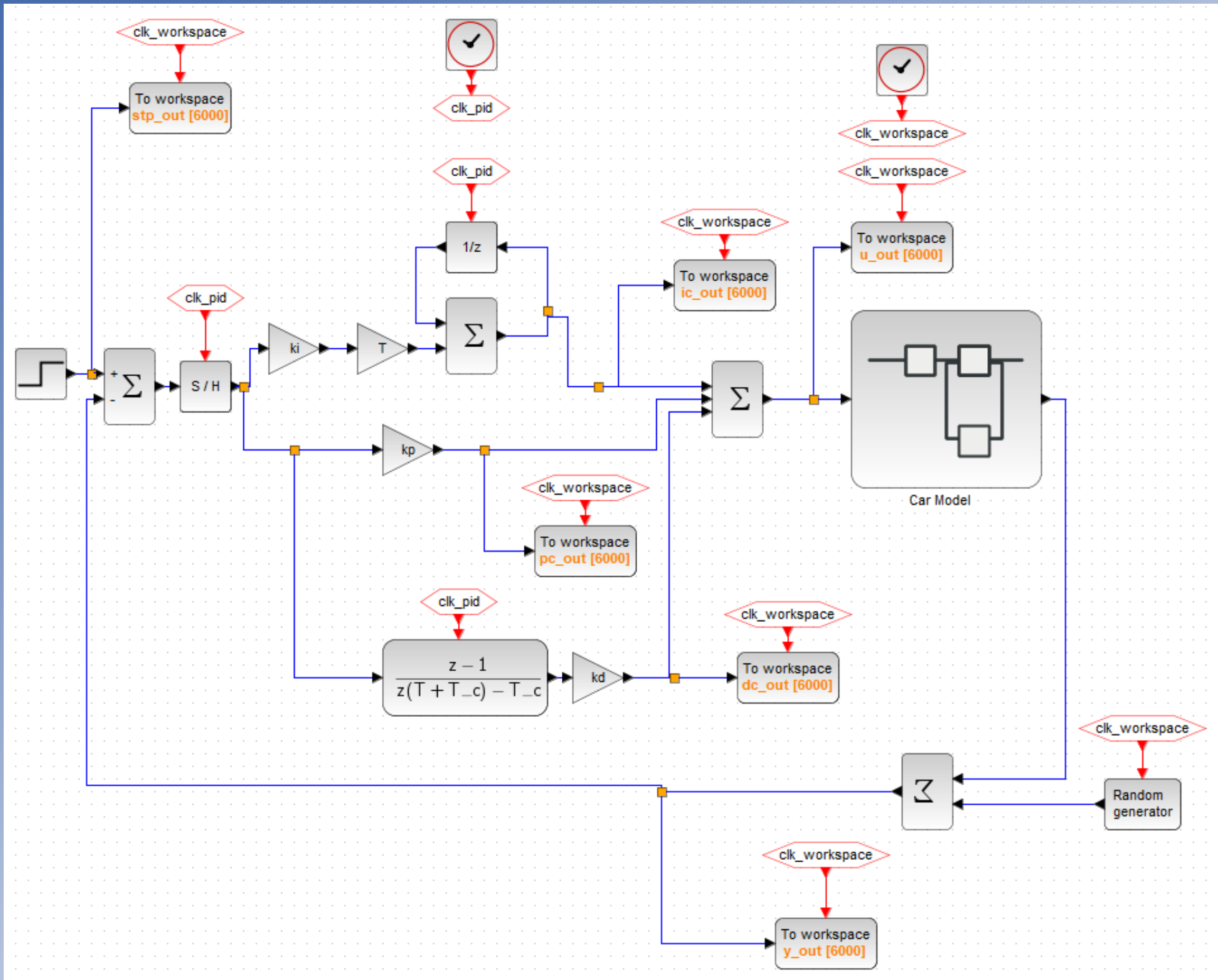
$$m \frac{dv}{dt} = F - bv^2$$

The parameters used are:

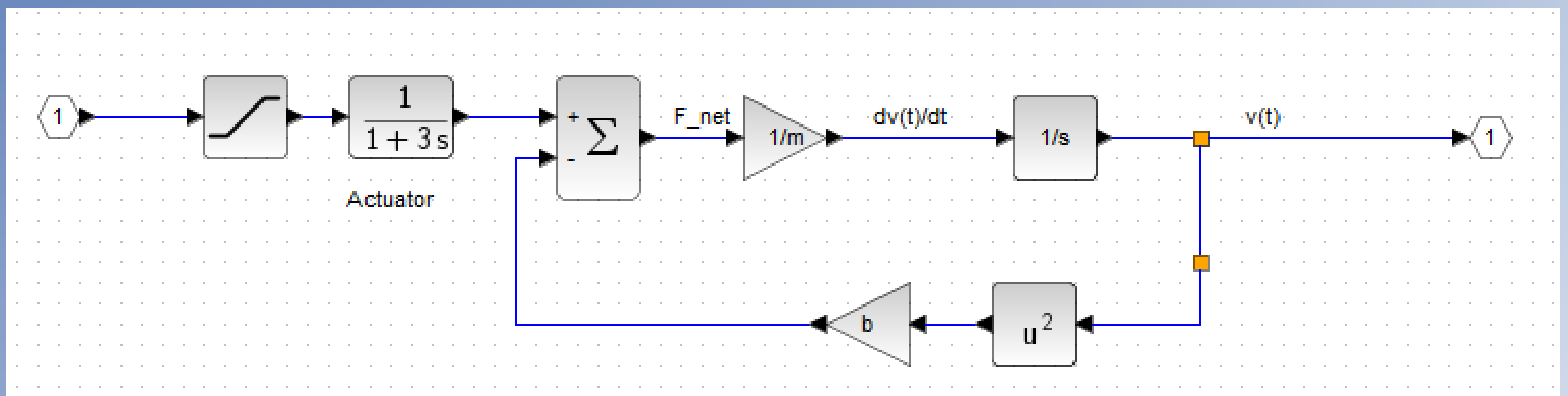
$$m = 1000kg$$

$$b = 1 \frac{Ns^2}{m^2}$$

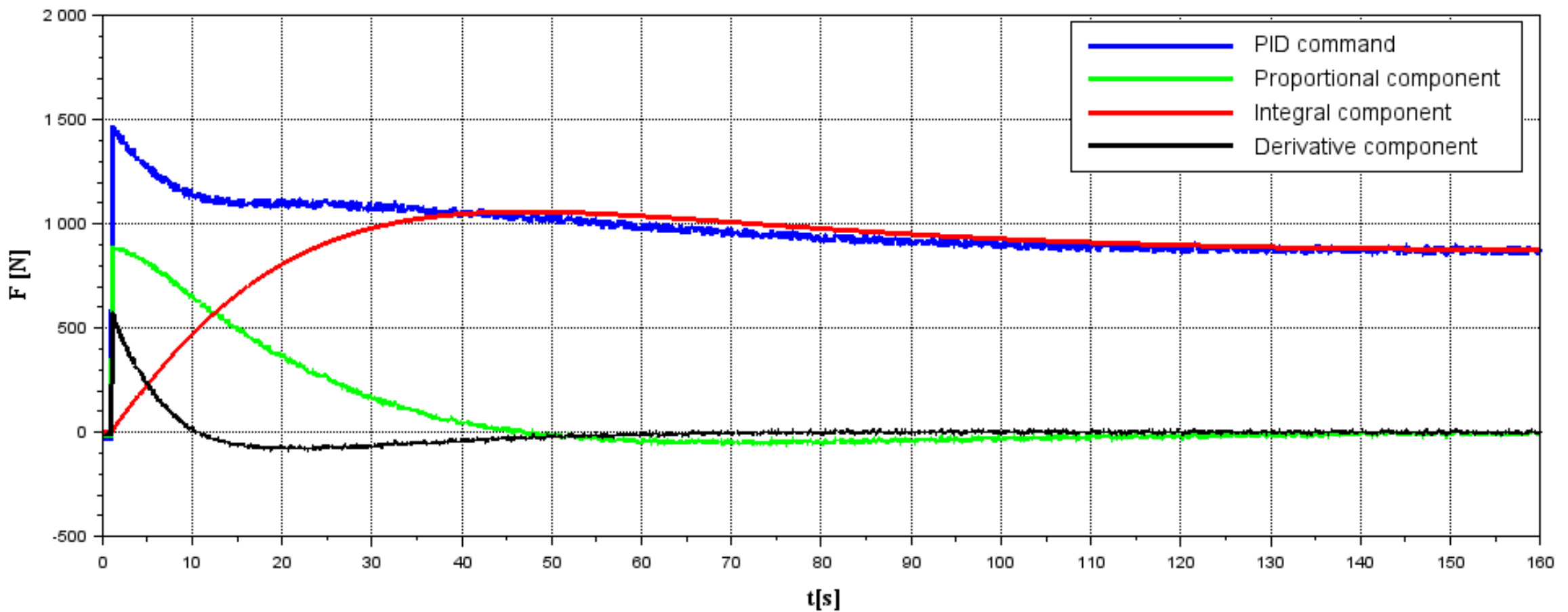
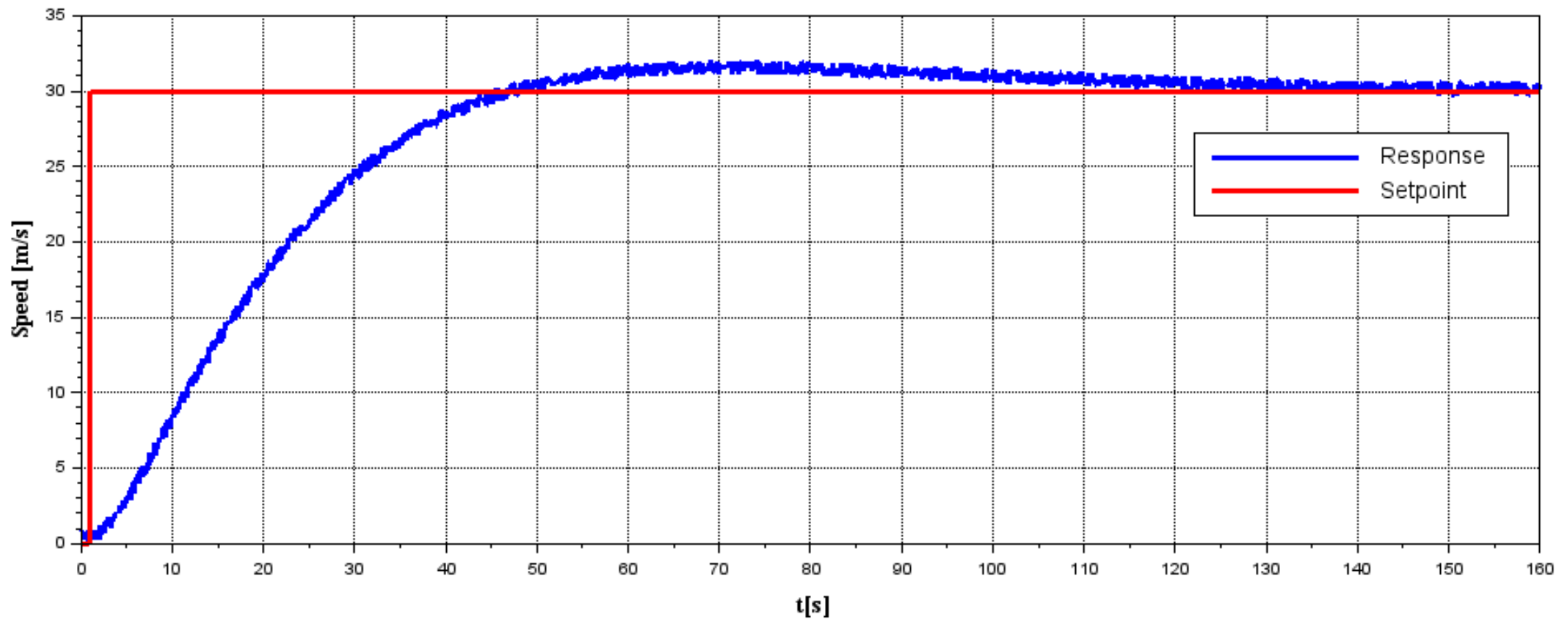
Top Level - Xcos



Car Model – Xcos



Simulation



PID Control

Interested in PID Control? Check out my digital course:

<https://simonebertoni.thinkific.com/>



Very helpful and practical



Very good sharing of experience

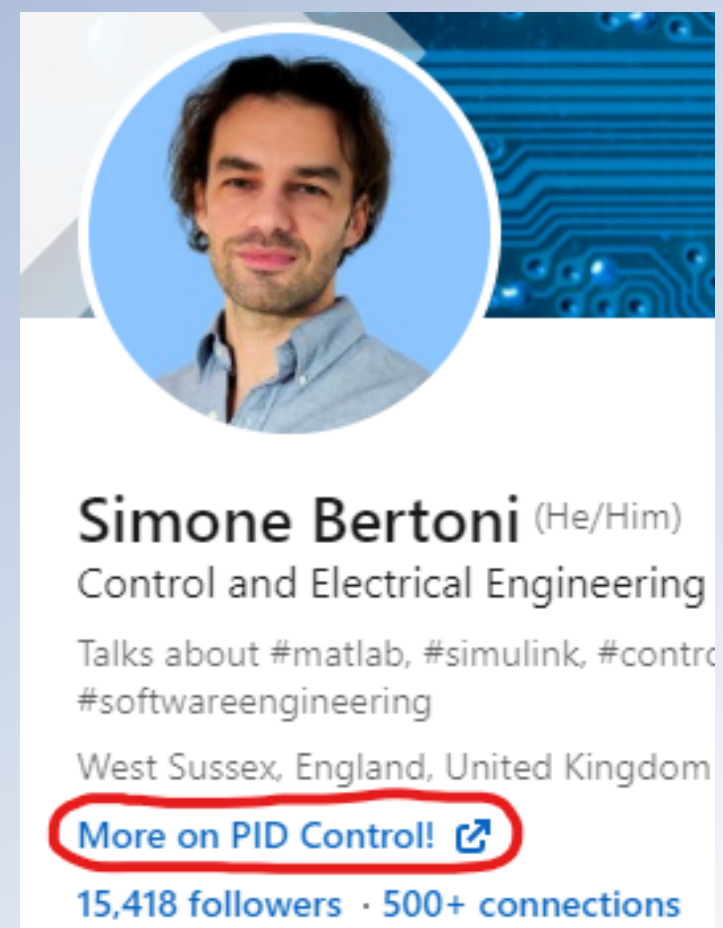


A different way to learn PID !



Great course

Find the link here!



Simone Bertoni