## **Table of Contents**

## b/c

a

```
no_func_model
p.L = 0.23e-3;
                    % [H]
                    % [Nm / A]
p.cm = 23.4e-3;
p.R = 2.4;
                    % [Ohm]
p.J = 0.23e-6;
                    % [Nm^2]
p.D = 0.4191e-5;
                    % [N * sec / m]
sim("no_func_model")
figure(1)
subplot(2,1,1)
plot(Scope.time, Scope.signals(1).values, "b" ...
     , Scope.time, Scope.signals(2).values, "r");
title("Open loop simulation");
legend("Model", "S-Function");
xlabel("Time");
ylabel("Speed");
subplot(2,1,2)
plot(Scope.time, abs(Scope.signals(1).values -
 Scope.signals(2).values), "b");
title("Difference between model and S-Function");
```

```
xlabel("Time");
ylabel("\Delta Speed");
                                                                                       Speed
                                    Open loop simulation
         40
                                                                        Model
                                                                        S-Function
         30
      Speed 20
         10
          0
                                               5
                                                                                  10
                                             Time
                          Difference between model and S-Function
         40
         30
      peeds \nabla
         10
          0
                         2
                                3
                                               5
                                                      6
                                                             7
                                                                    8
                                                                                  10
           0
                  1
                                             Time
```

d

% sfundemos % Crashed our Matlab

