

Wydział Elektroniki i Technik Informatycznych
Politechnika Warszawska

Systemy mikroprocesorowe w sterowaniu

Sprawozdanie z projektu nr 1

Mateusz Dziwulski, Jakub Szczepański

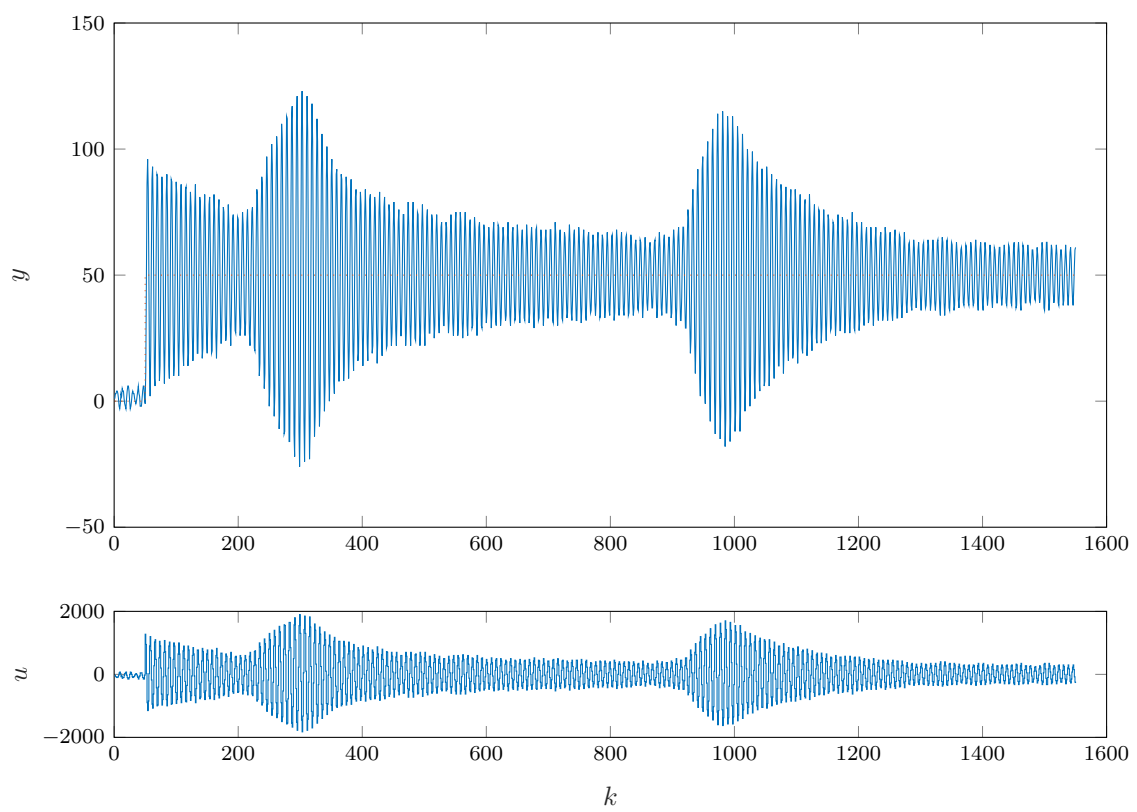
Warszawa, 2017

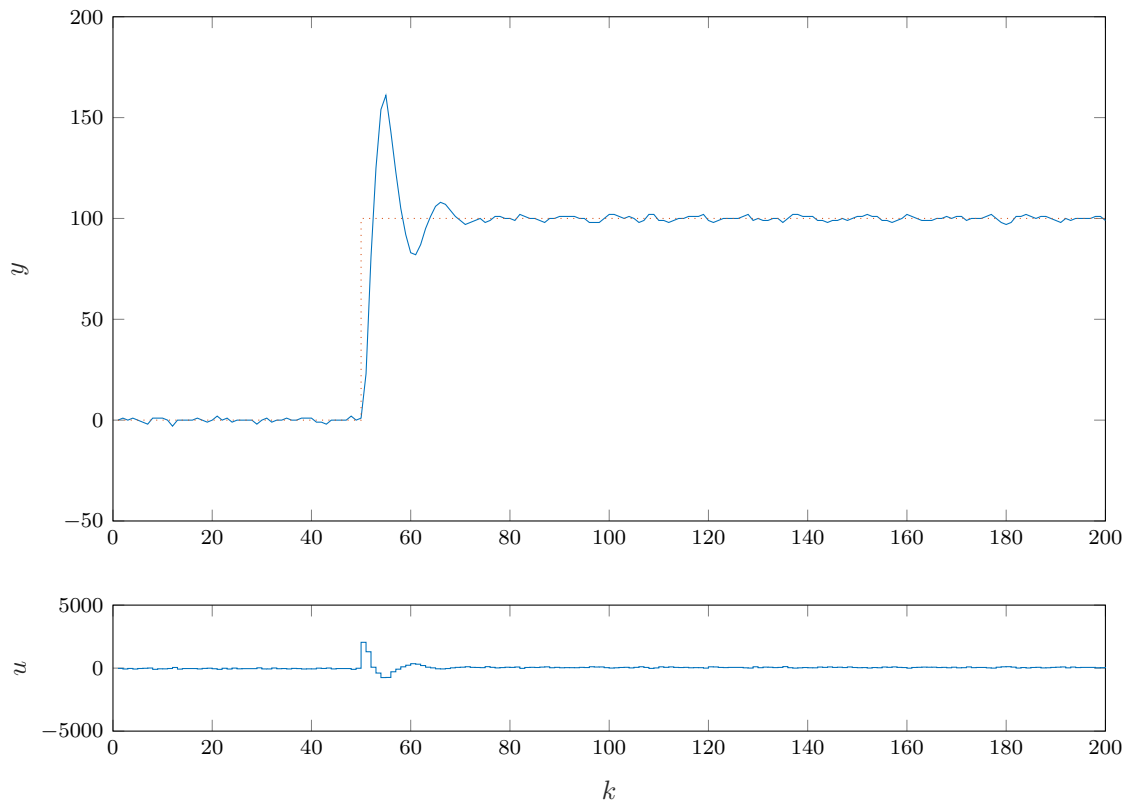
Spis treści

1. Wstęp

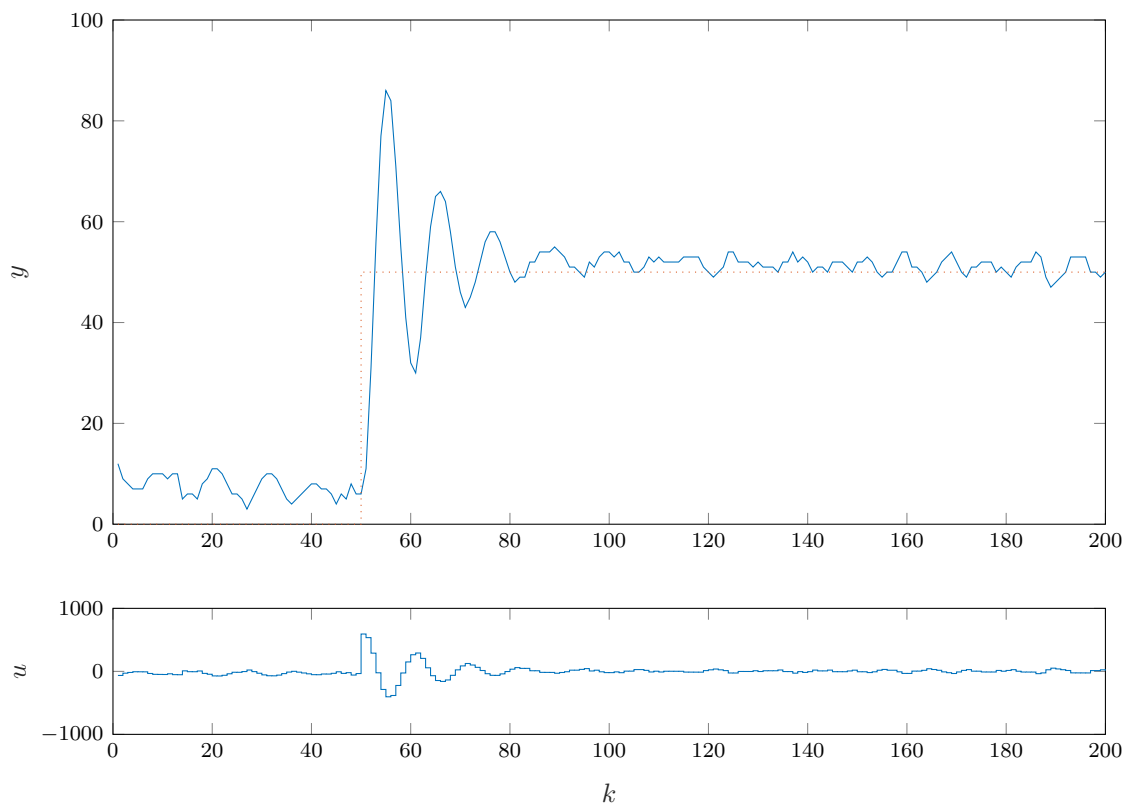
Dla prostoty i przejrzystości sprawozdania wykorzystane zostały oznaczenia pierwotnie wprowadzone w skrypcie z przedmiotu STP.

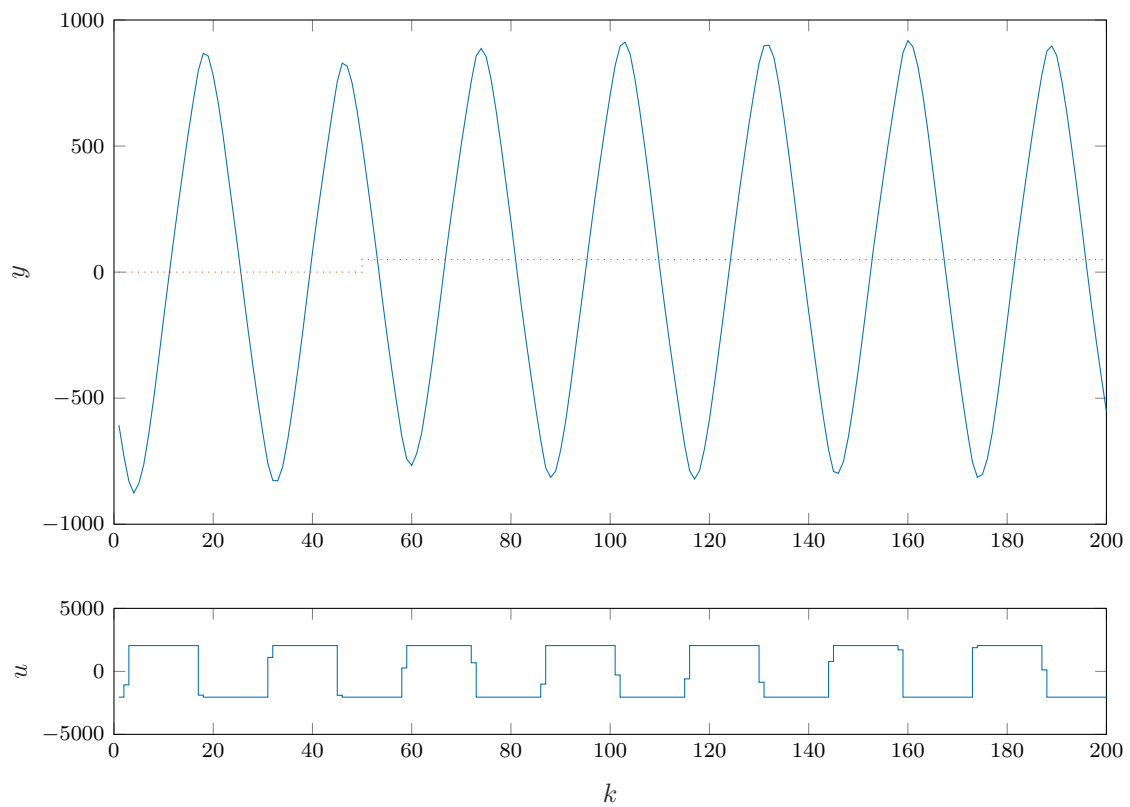
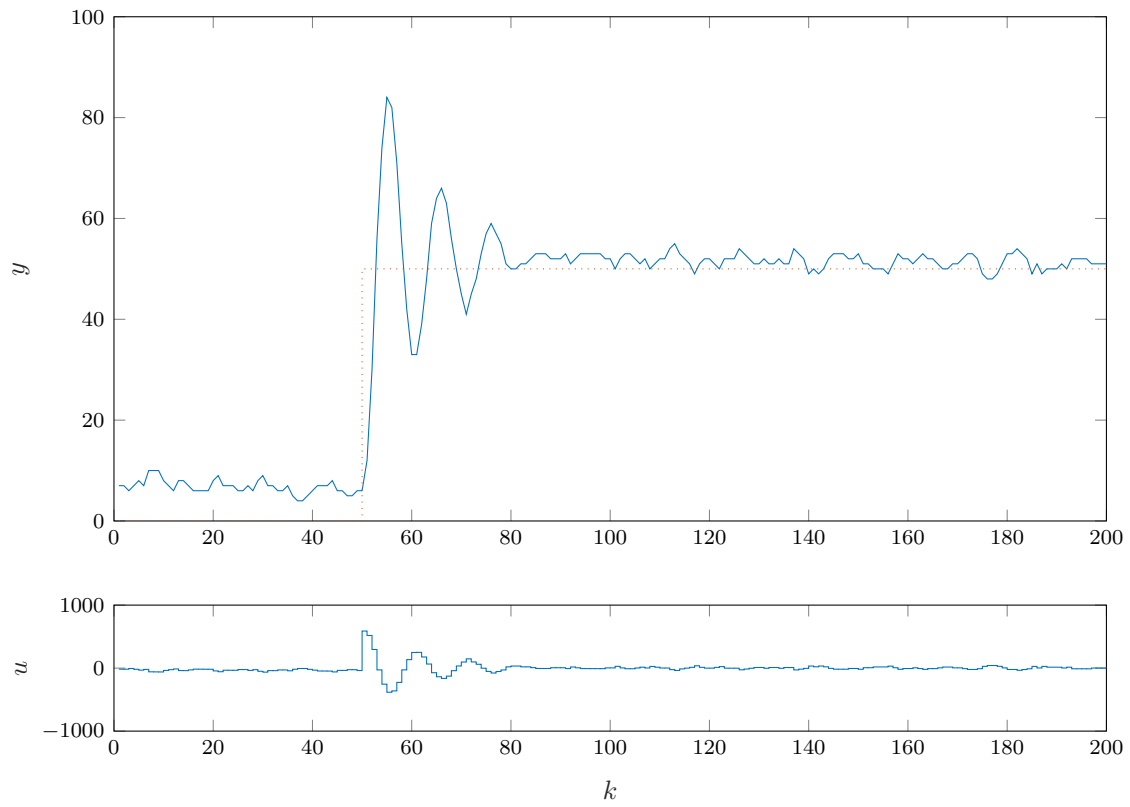
2. Algorytm PID

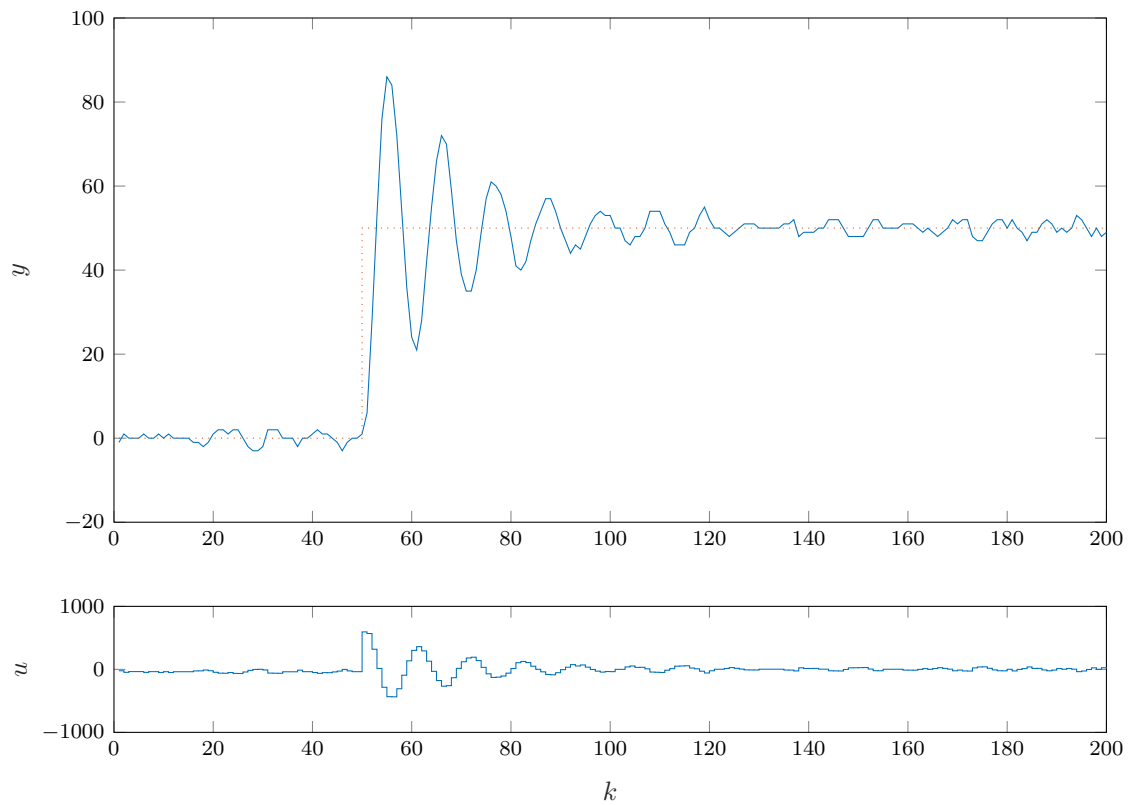
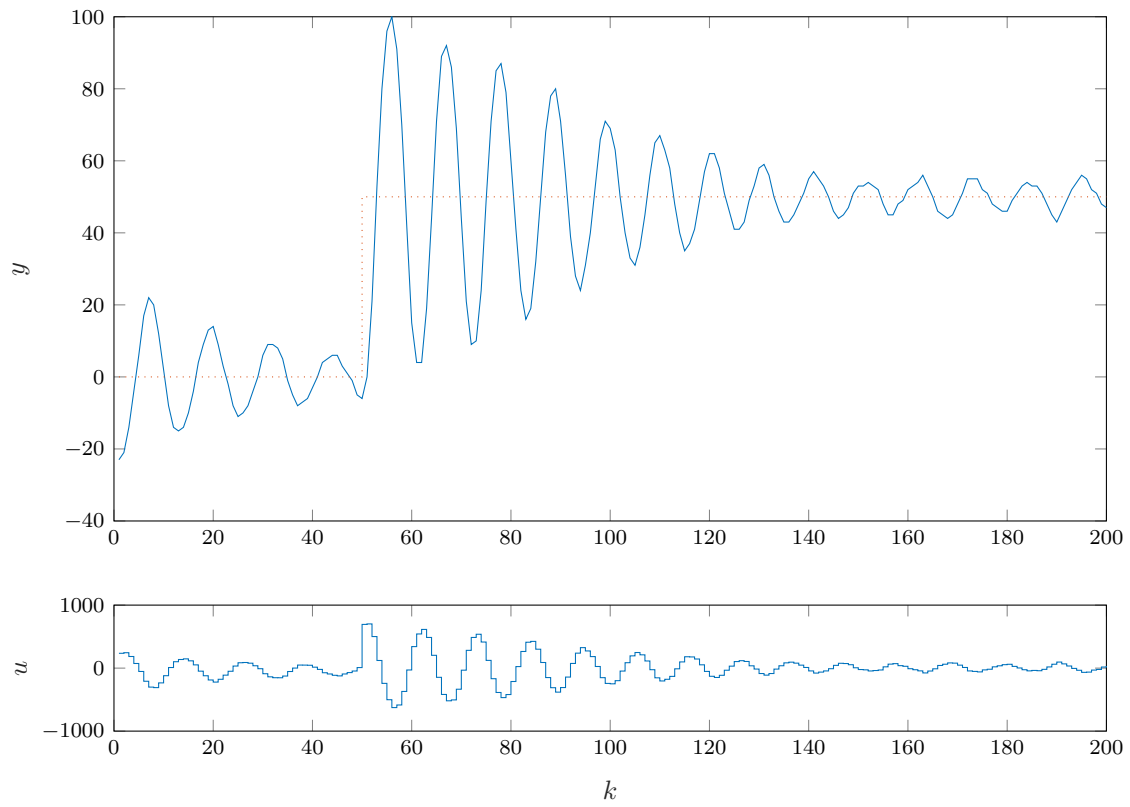


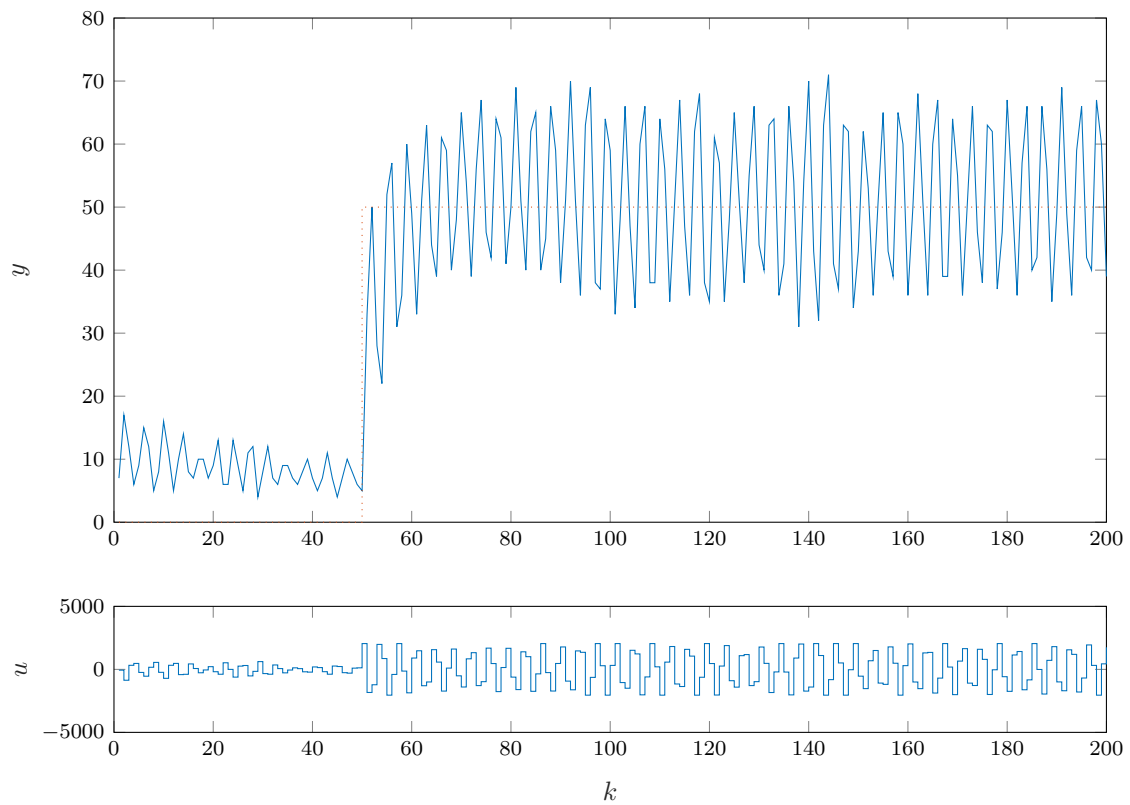
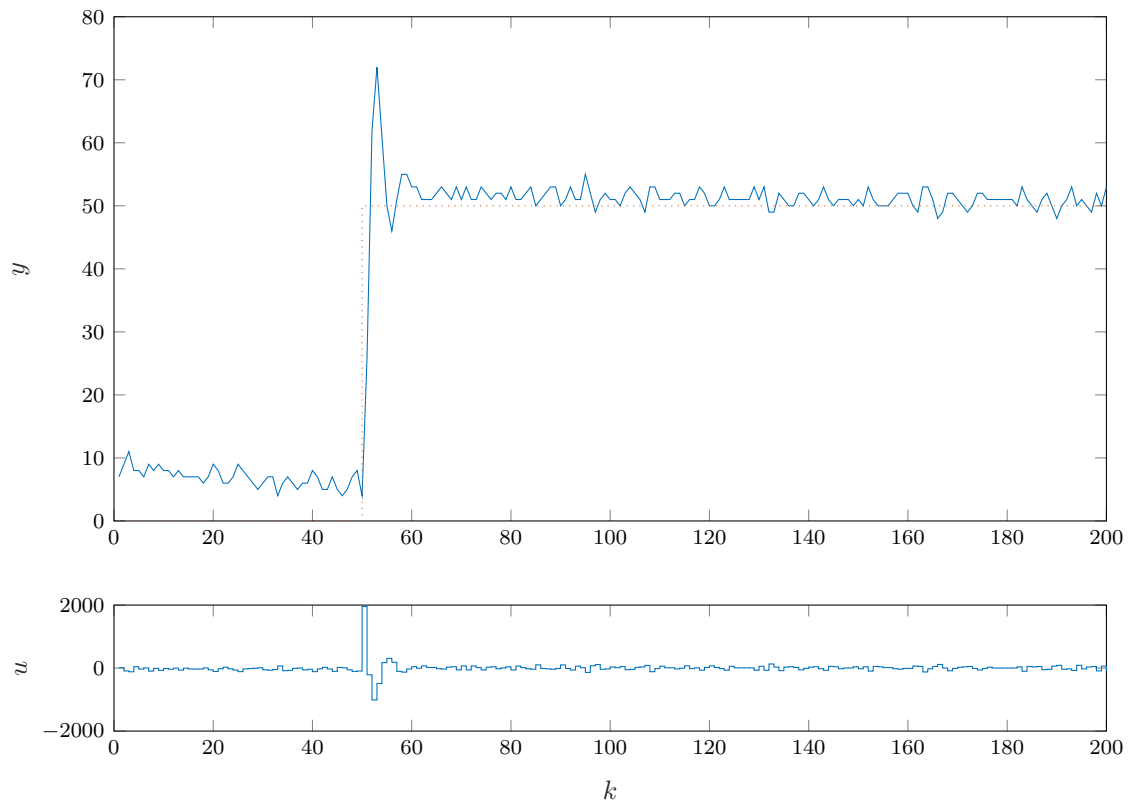


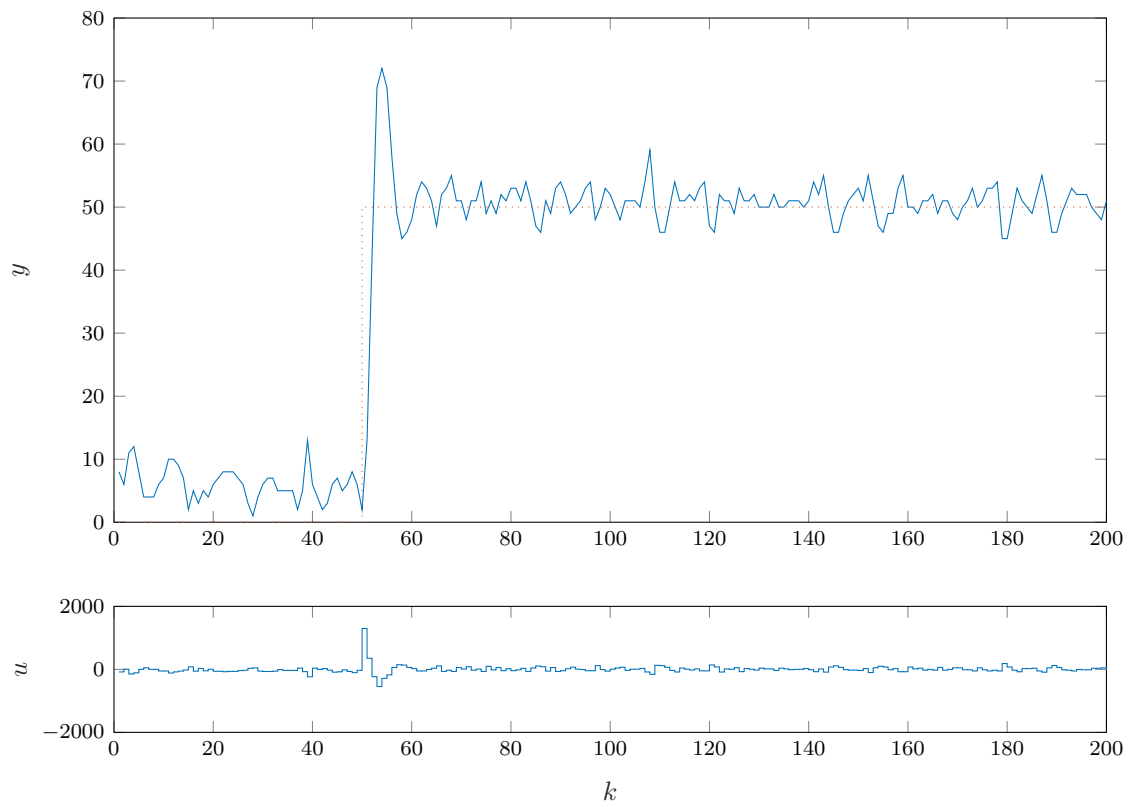
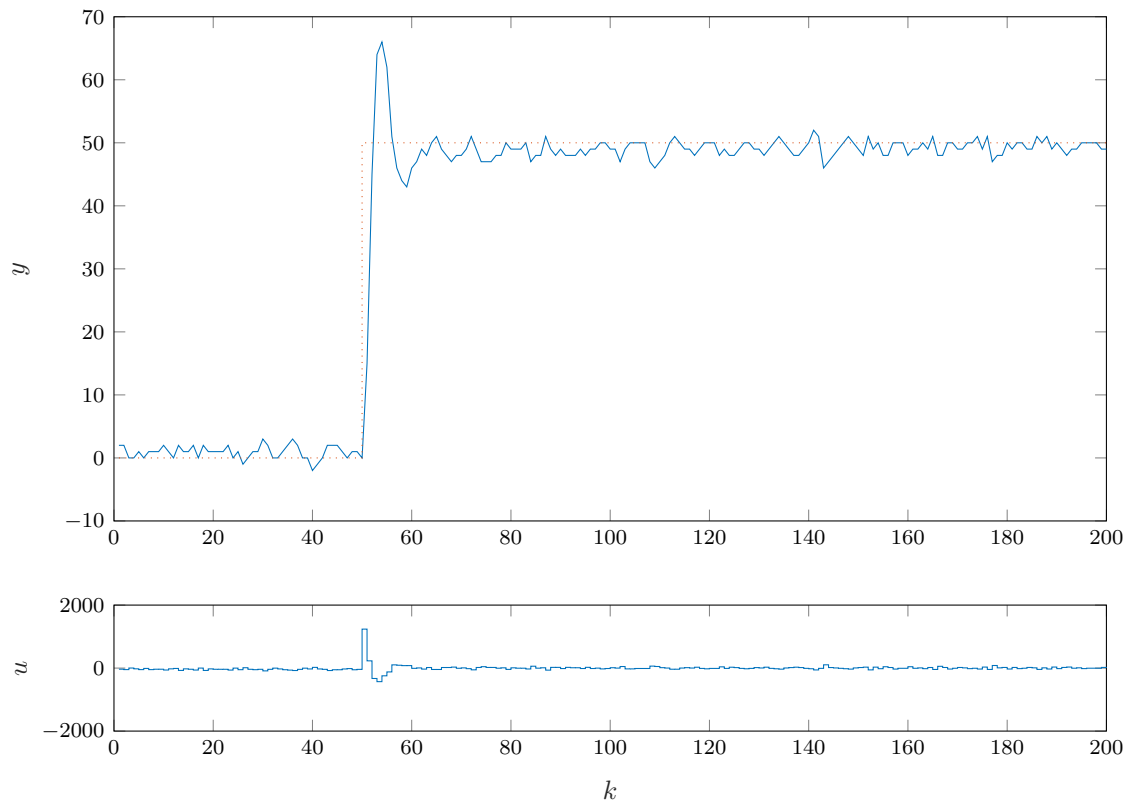
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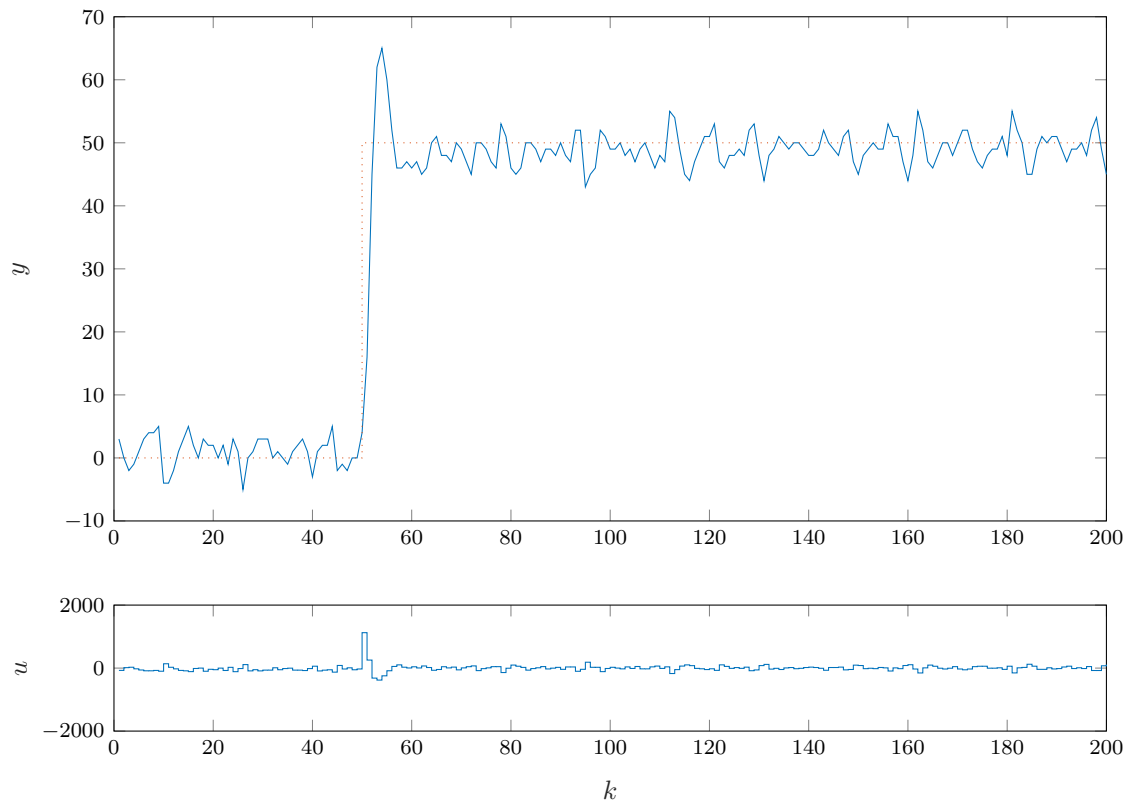




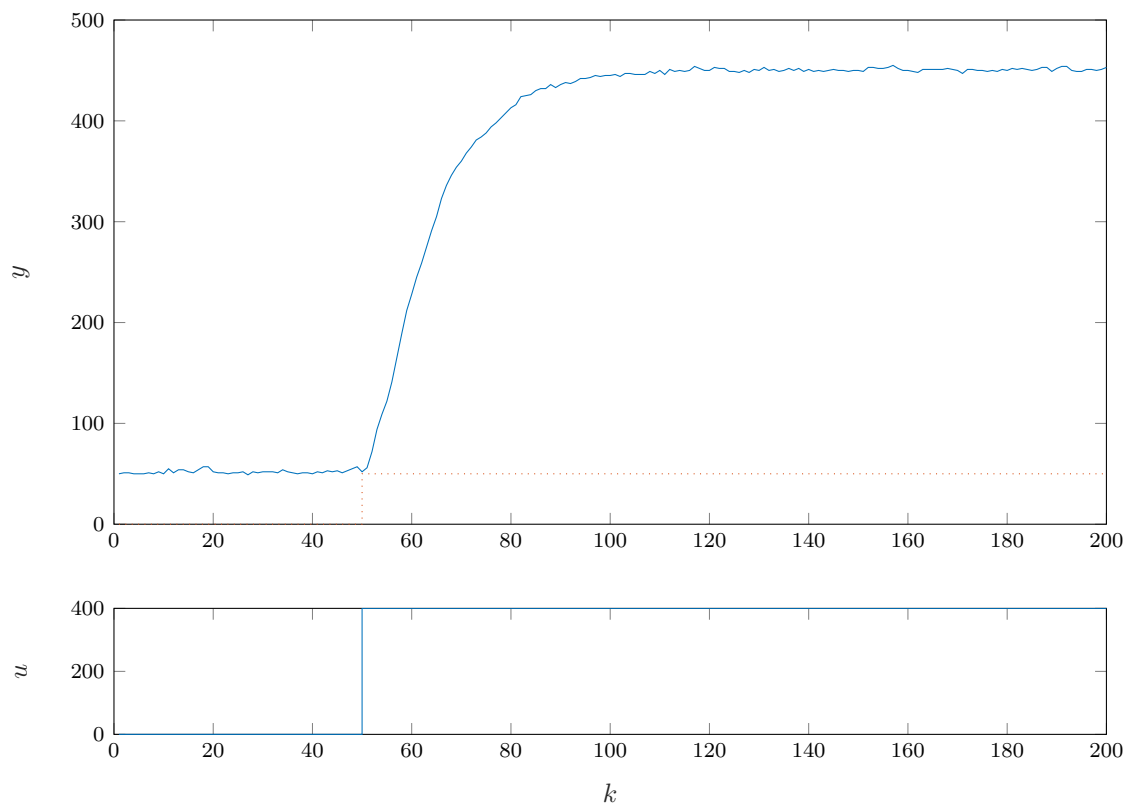


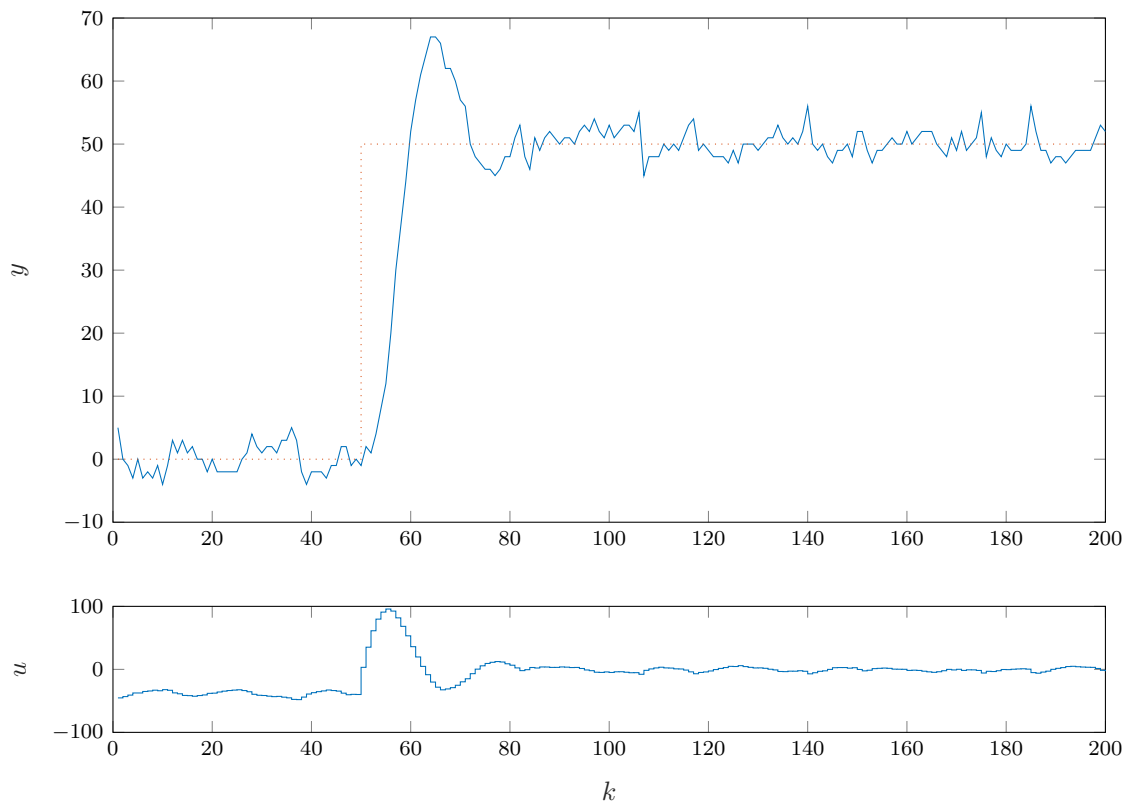
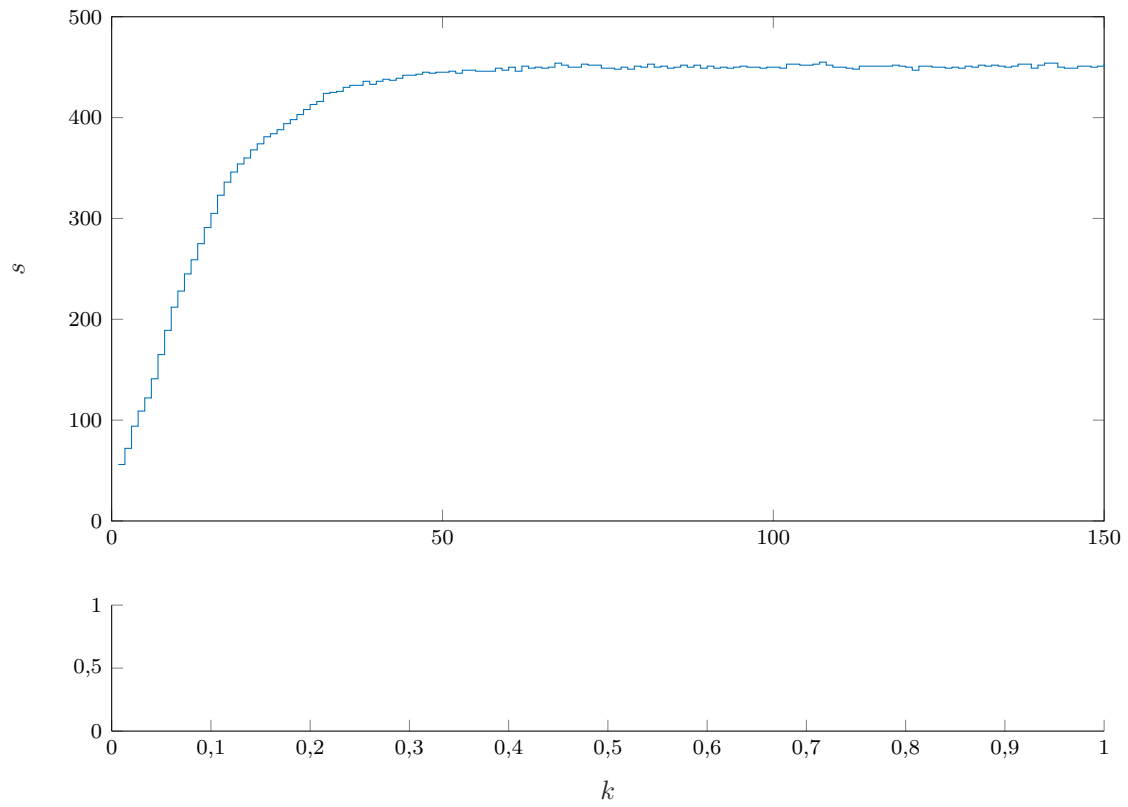


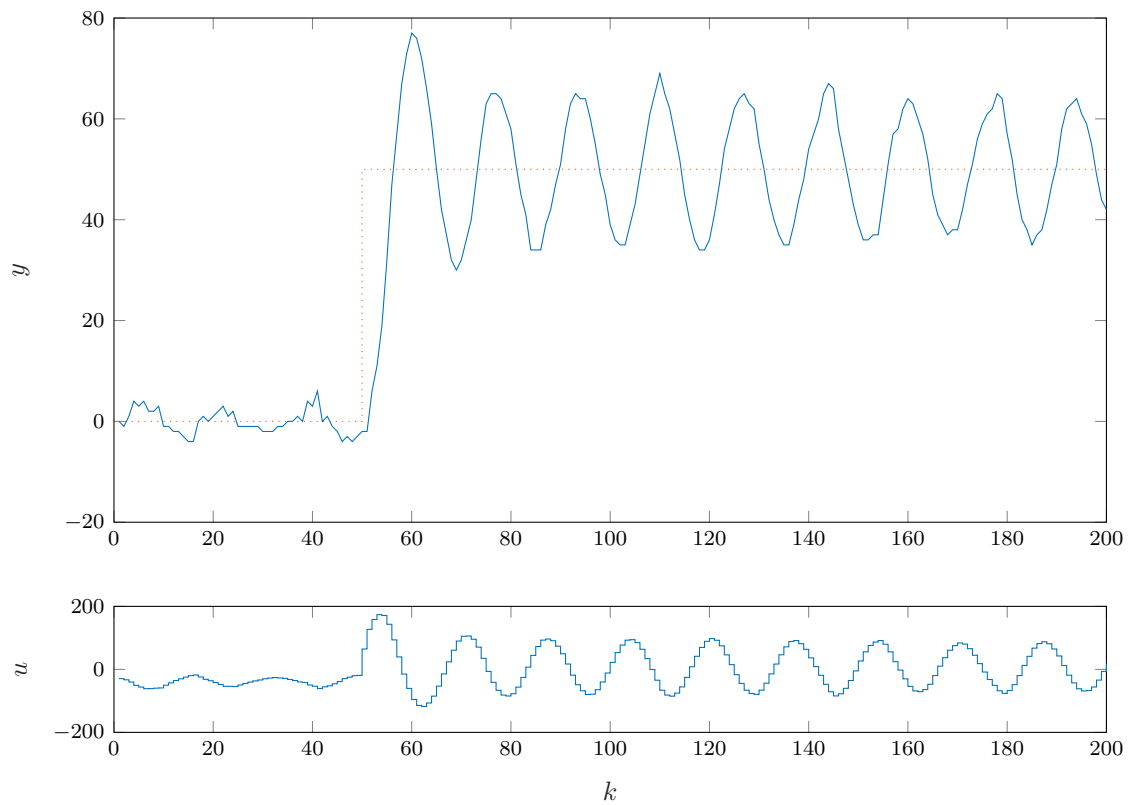
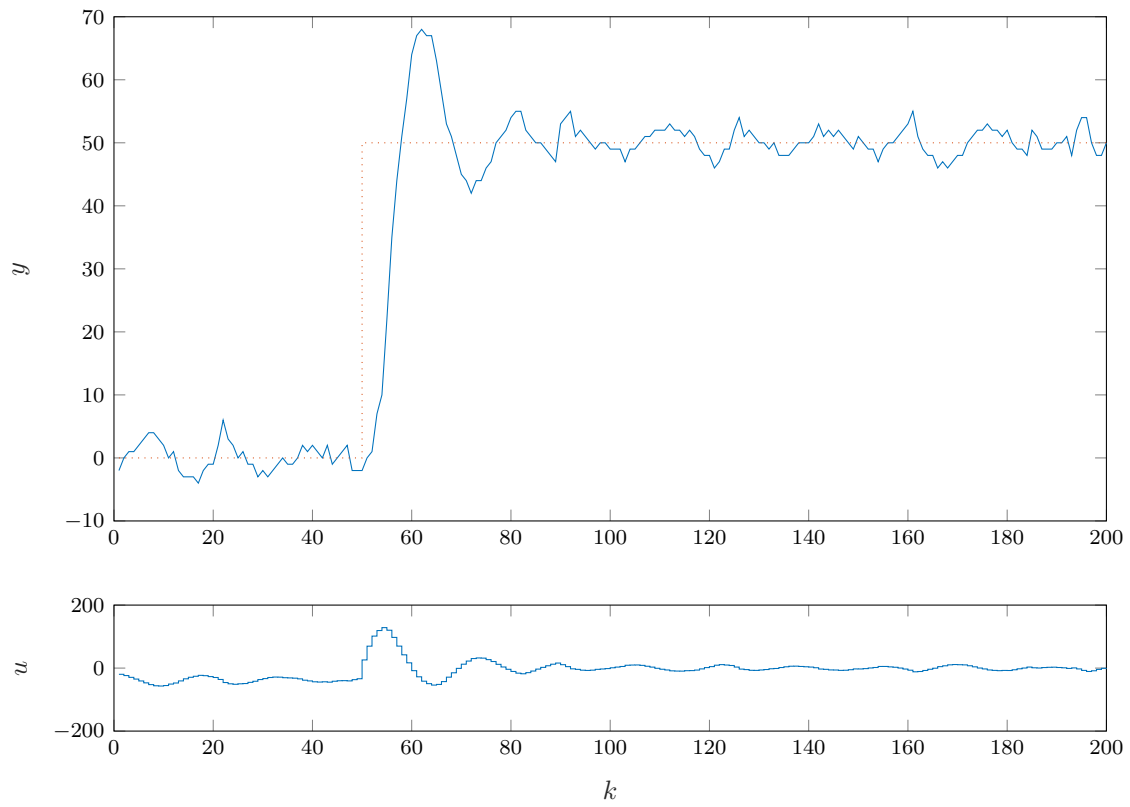


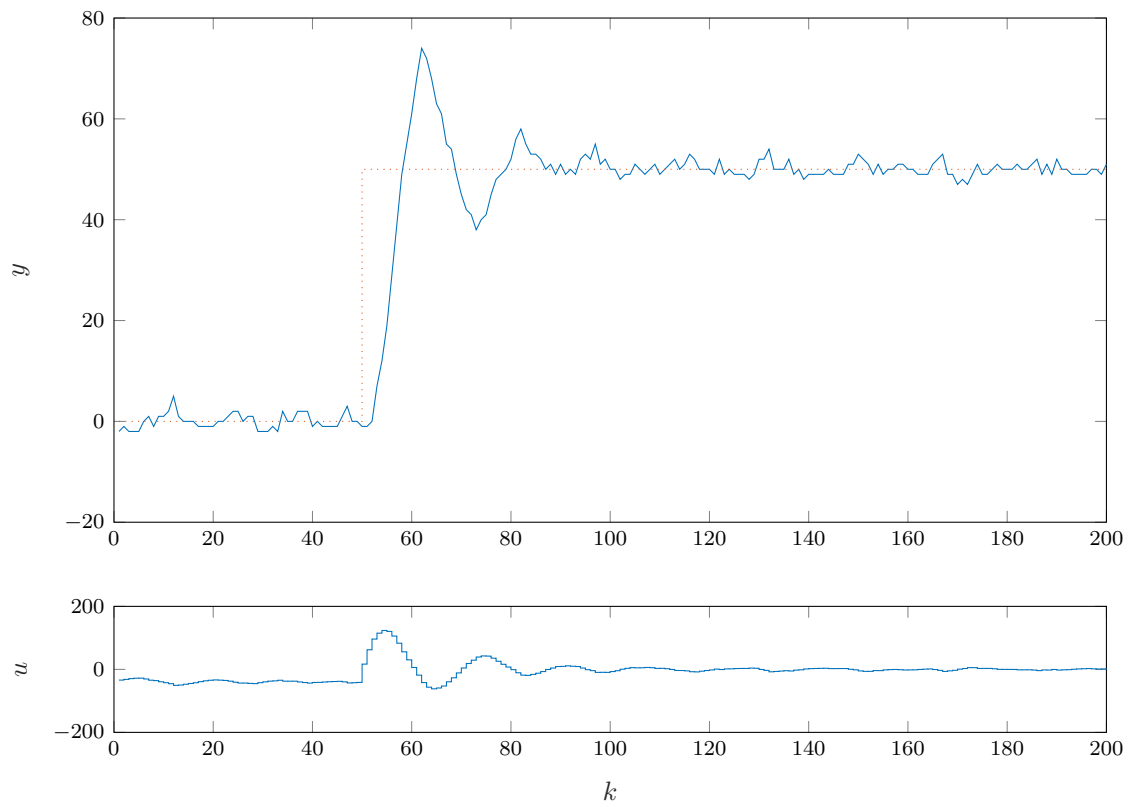
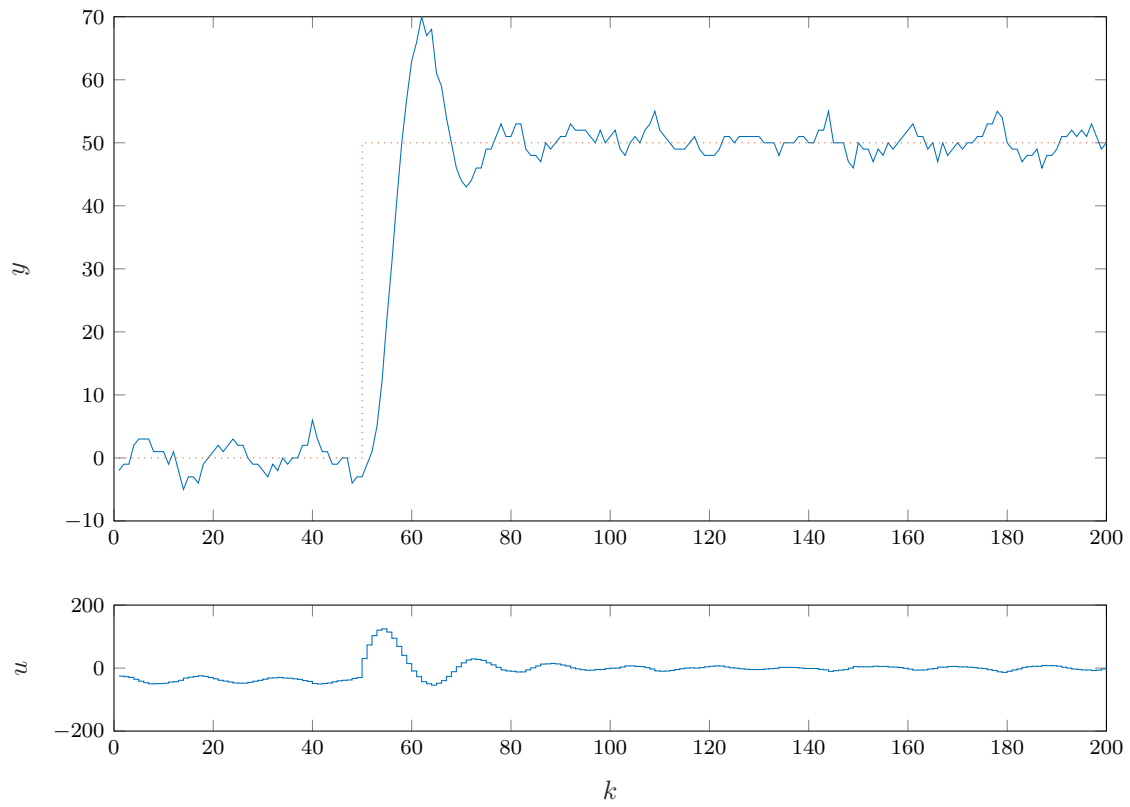


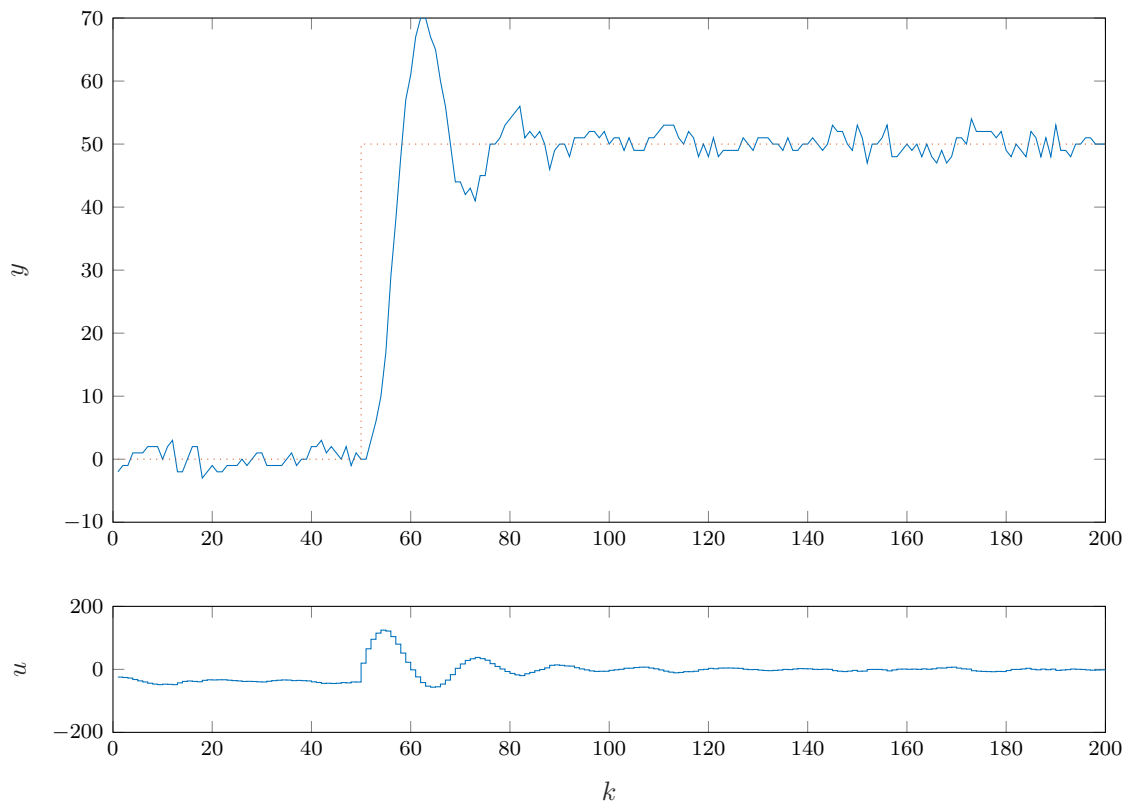
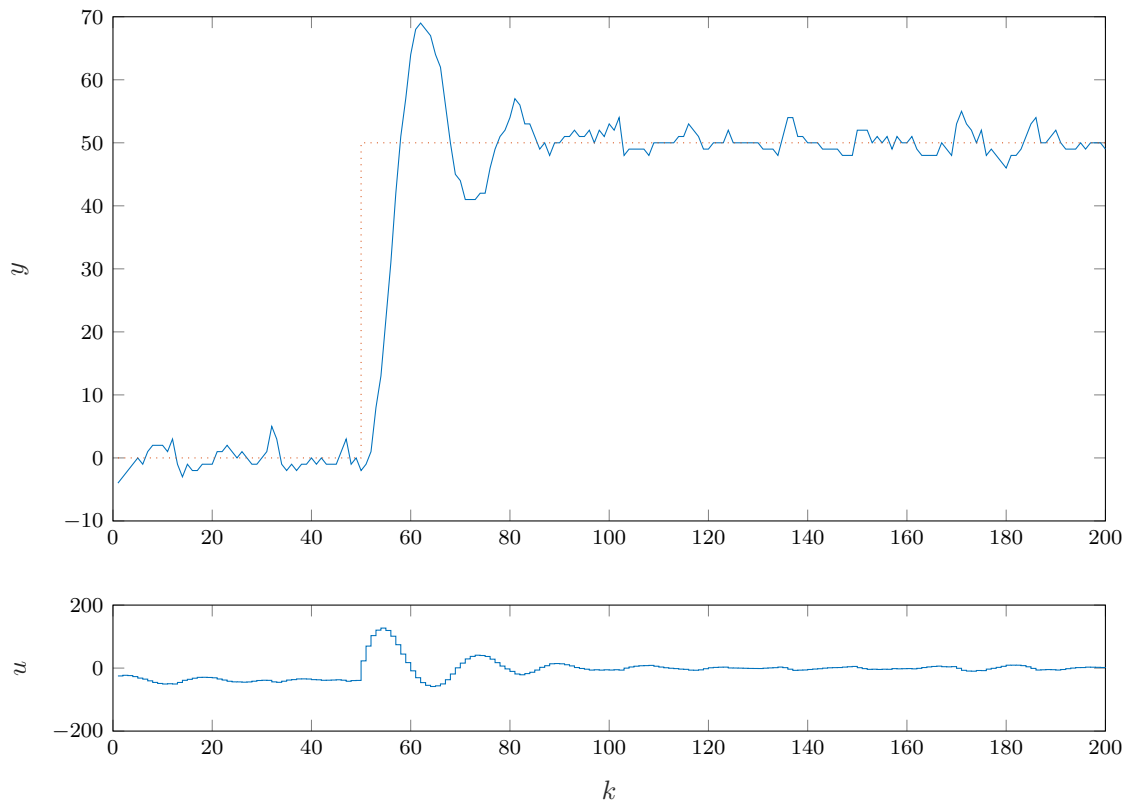
3. Algorytm DMC

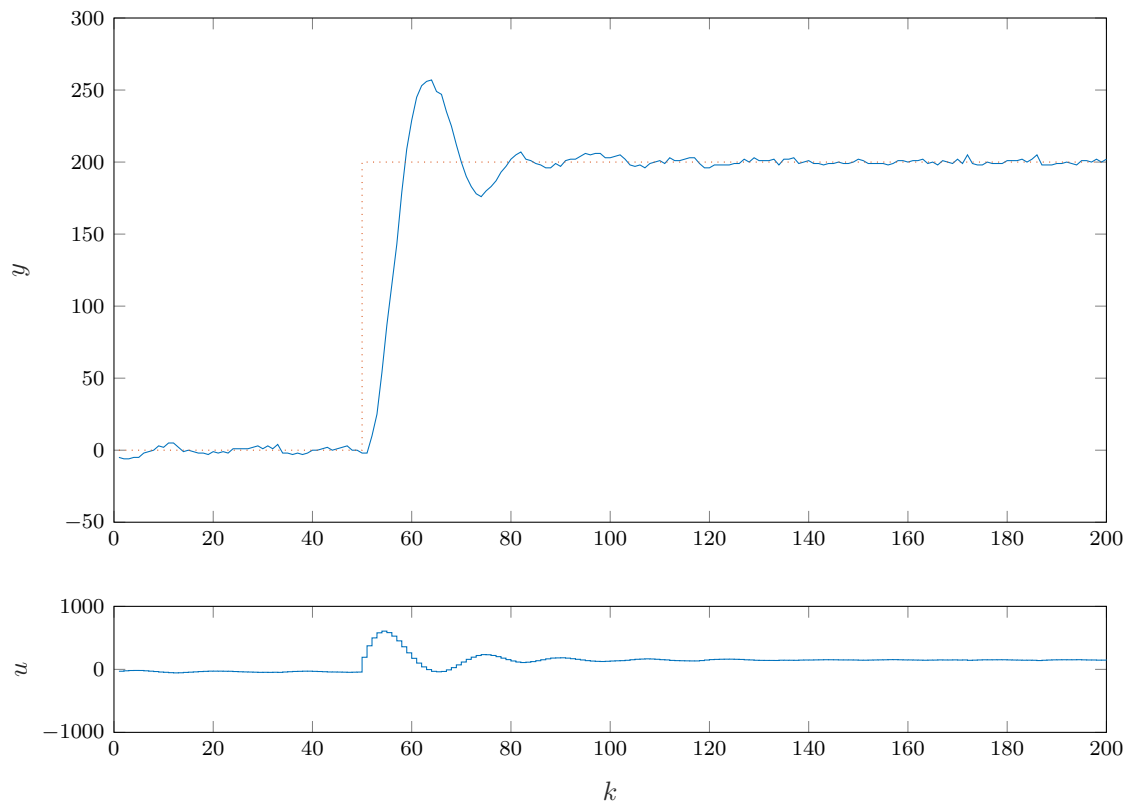
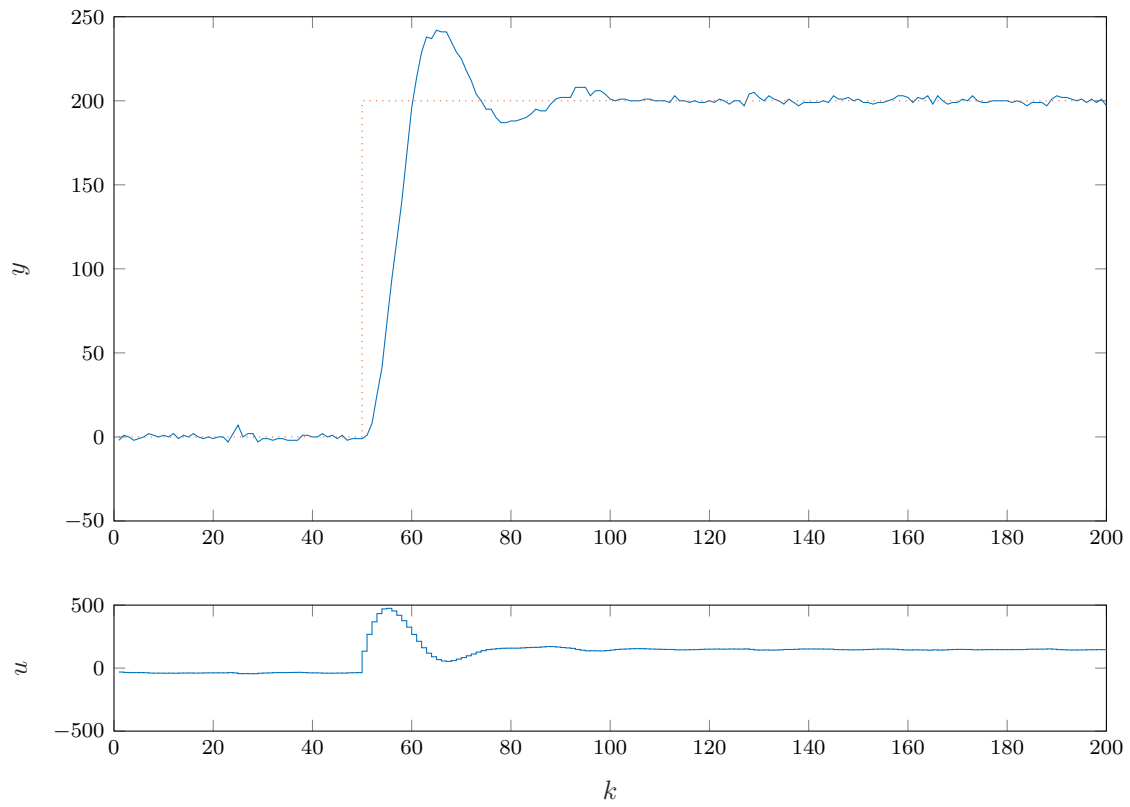


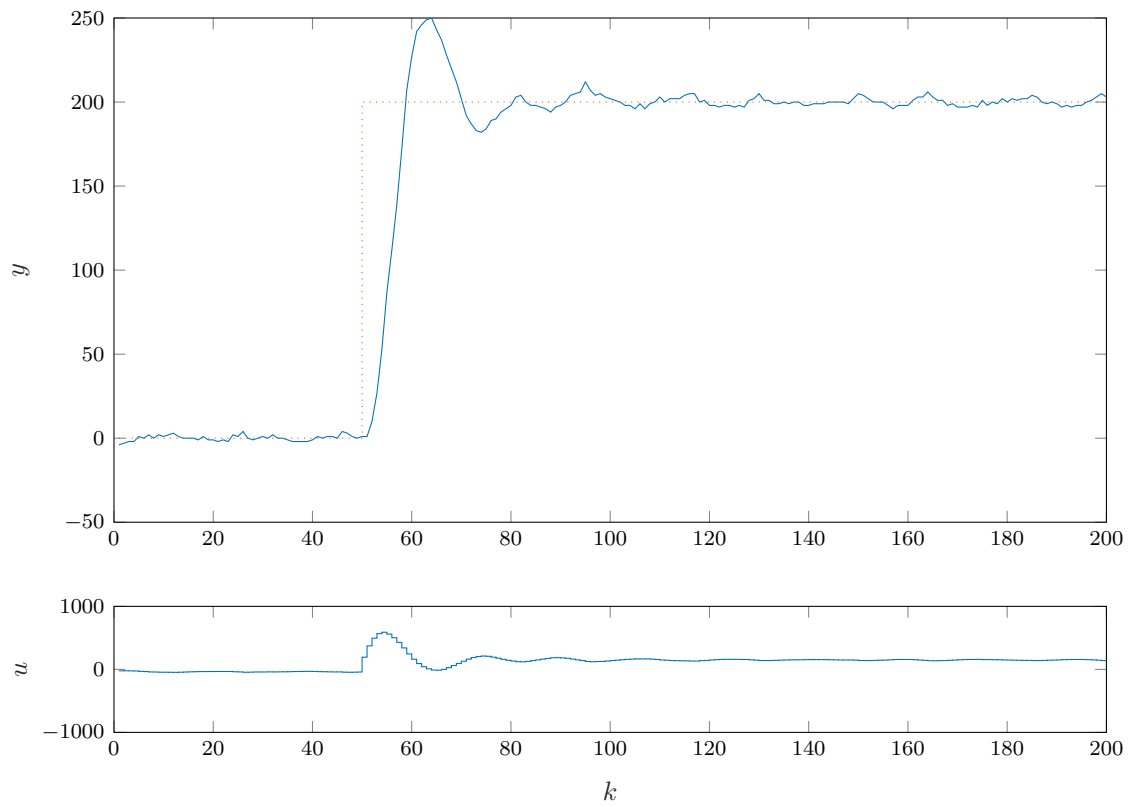
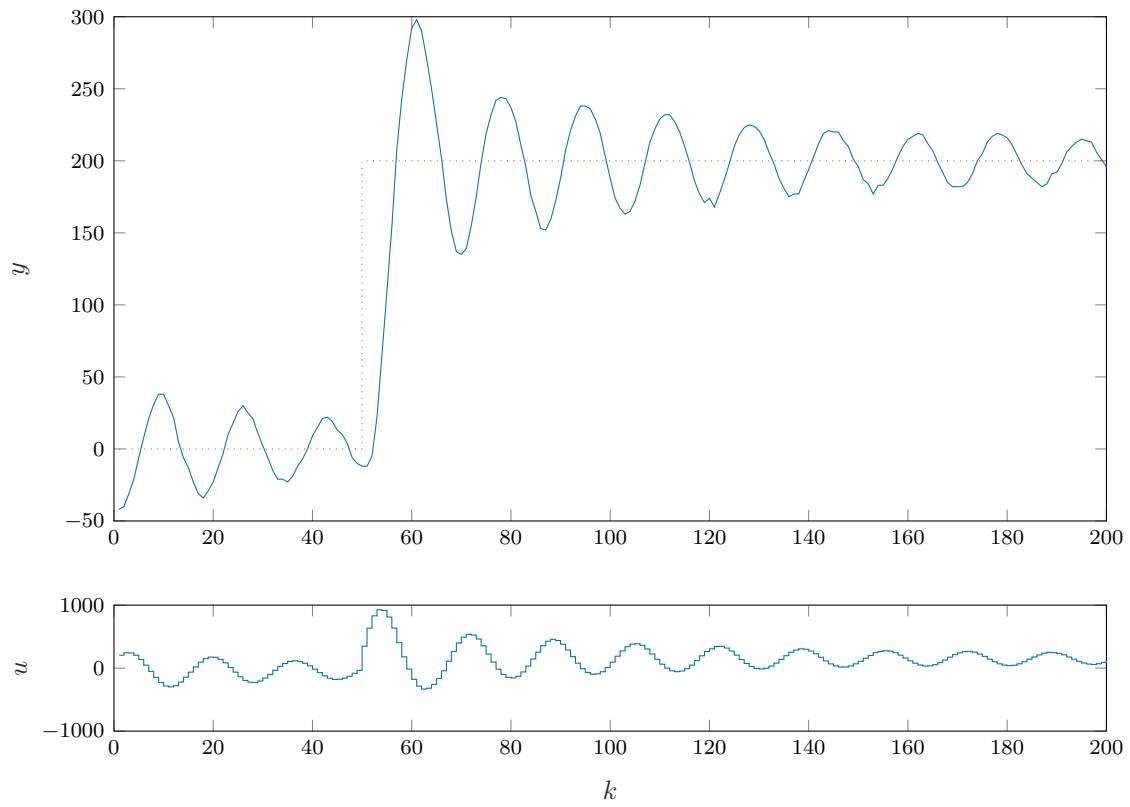


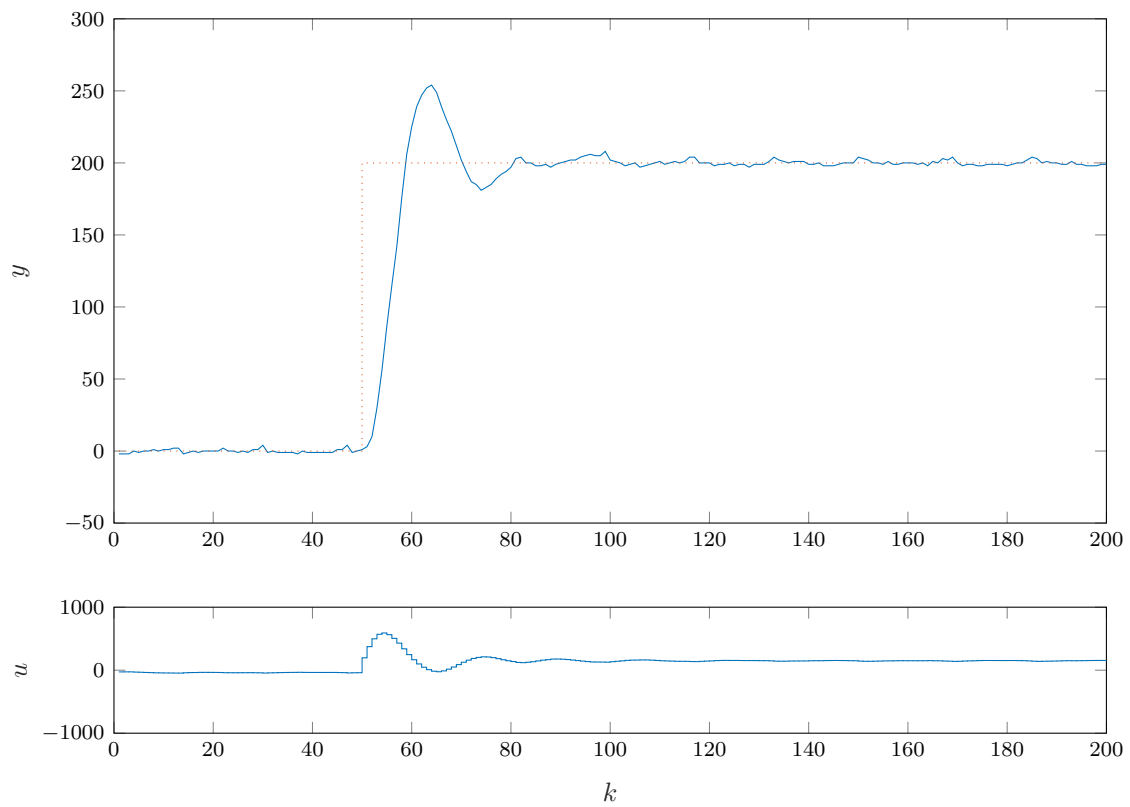
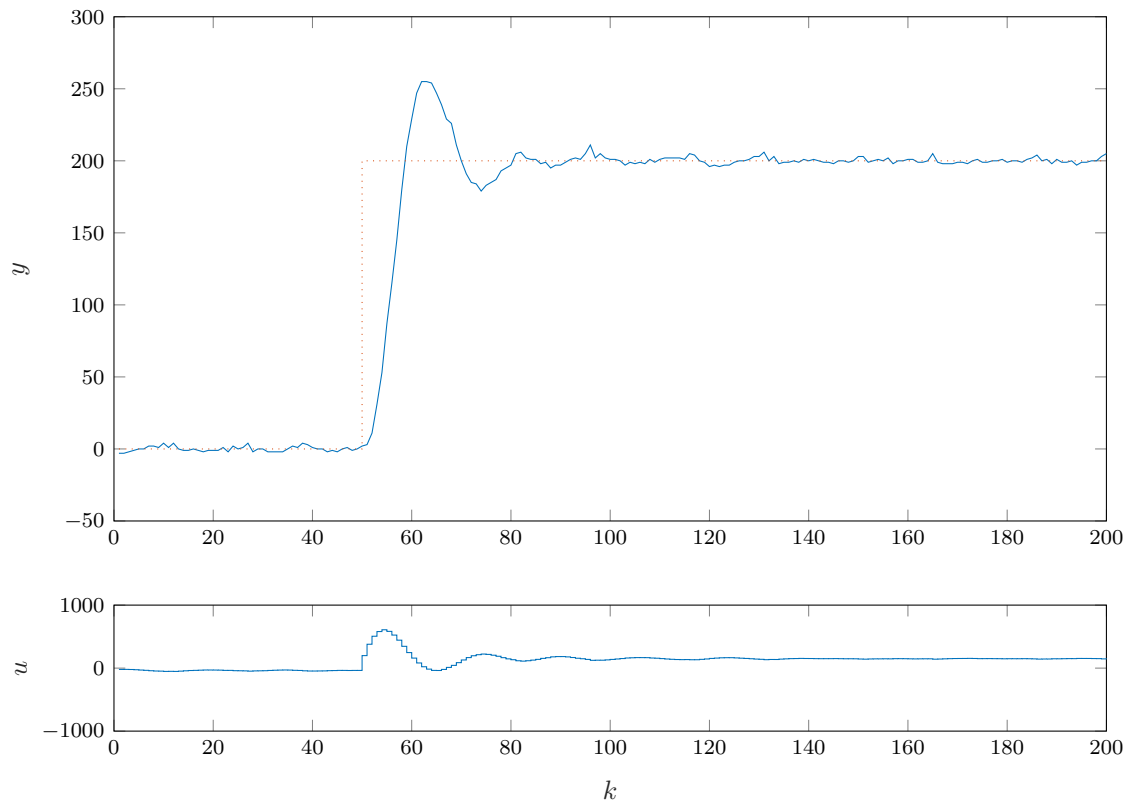




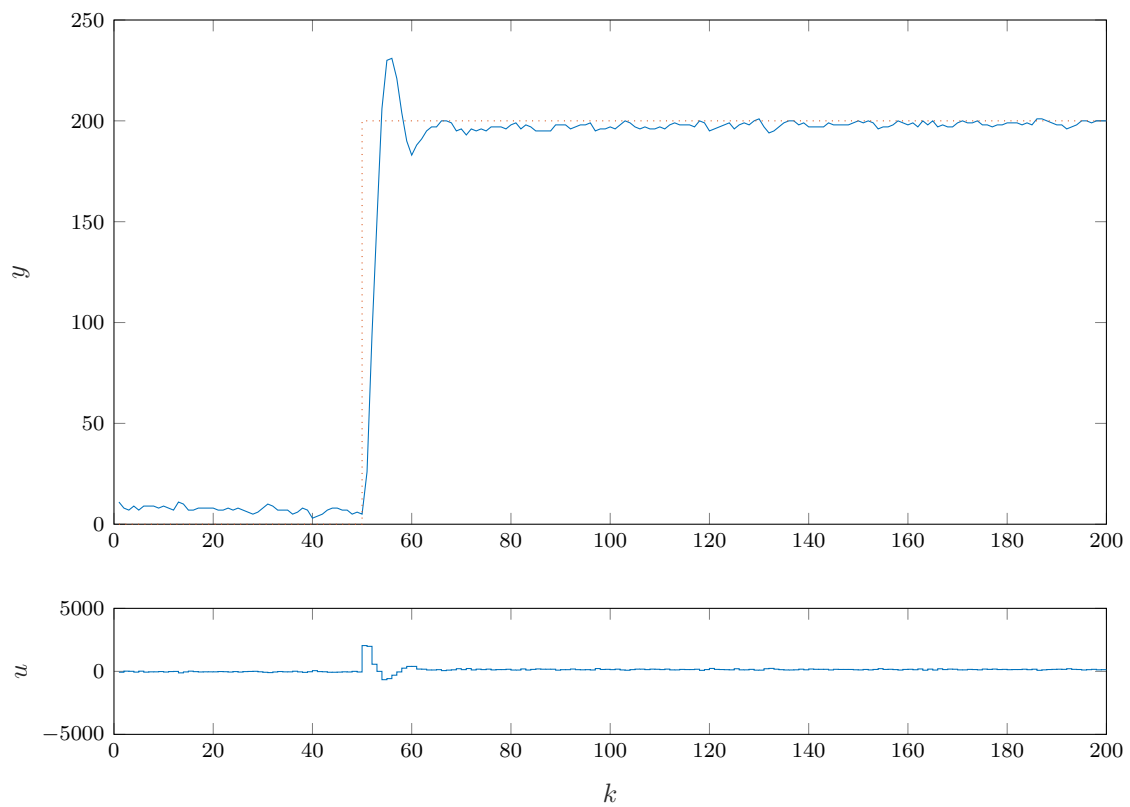


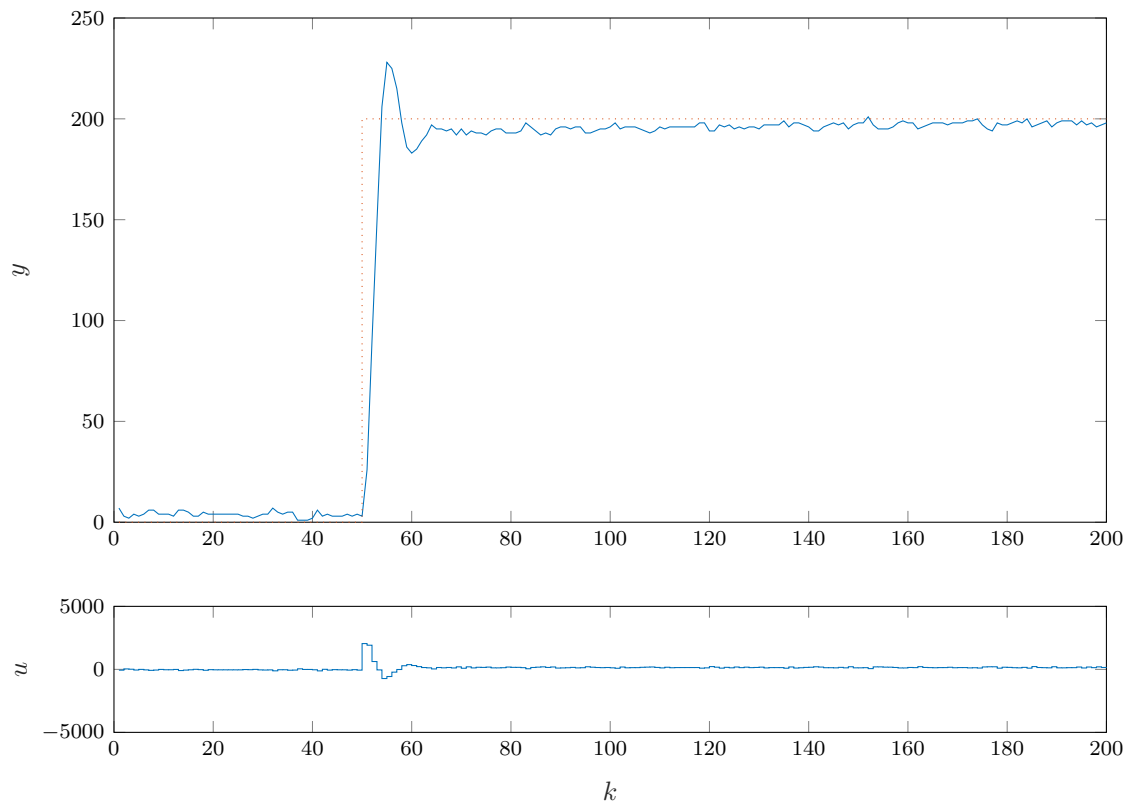
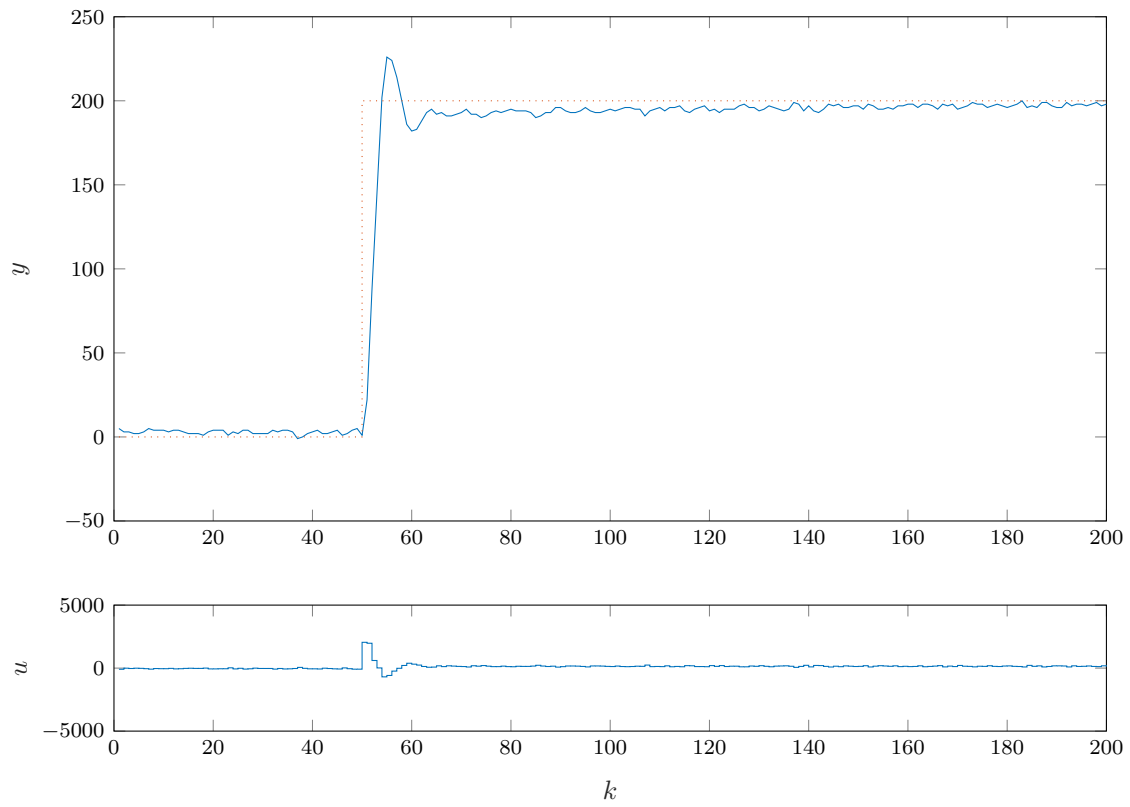


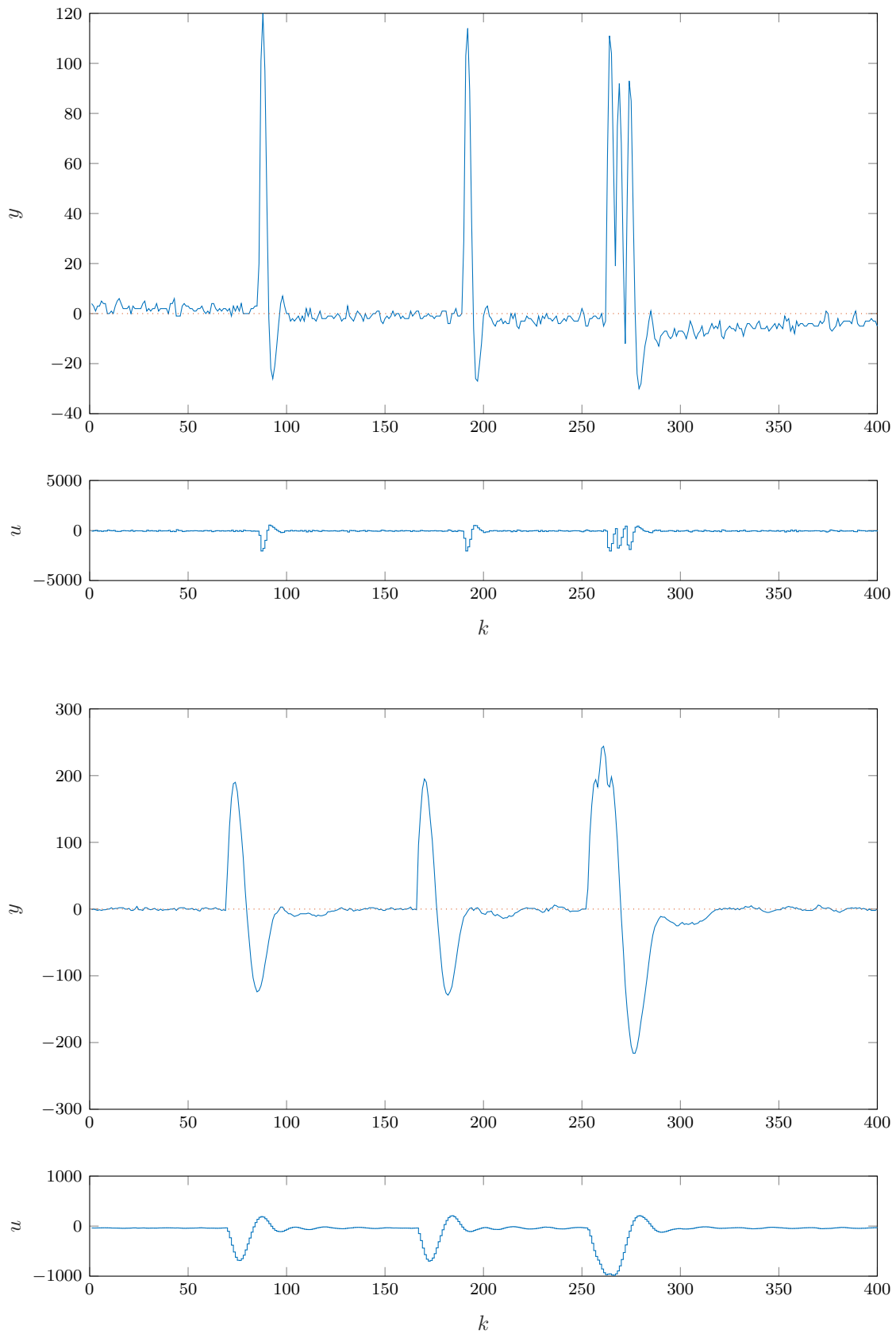




4. Porównanie najlepszych realizacji







(4.1)

```
s = tf('s');
```

```
sys = K/((s*T1+1)*(s*T2+1))*exp(-Td*s);  
% wartości T1, T2 oraz Td otrzymano podczas optymalizacji  
% parametrów modelu wykorzystanego przy aproksymacji  
  
pidtune(sys, 'PID');
```