

???????? (Parameter Sweeping ??)

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Kp ??????????

for

```
% 1. 初始化
Kp_values = [0.5, 1.0, 1.5, 2.0, 2.5]; % 初始化 5 个 Kp 值
num_tests = length(Kp_values); % 测试次数 (5)

% 2. 初始化图形
figure;
hold on; % 保持图形

% 3. 初始化图例
legend_labels = cell(1, num_tests);

% 4. 遍历测试
for i = 1:num_tests

    % (A) 设置 Kp
    Kp = Kp_values(i); % 当前 Kp 值

    % (B) 仿真 (设置步长)
    out = sim('my_model', 'MaxStep', '0.01');

    % (C) 提取数据
    t = out.tout;
    y = out.sim_result;

    % (D) 绘图
    plot(t, y, 'LineWidth', 1.5);
```



```
% 4. Excel
% T
writetable(T, 'My_Simulation_Data.xlsx');

disp(' Excel');
```

? (Sheet)??

for Sheet Excel

```
% i Kp
sheet_name = ['Kp_', num2str(Kp)]; % 'Kp_1.5'

% Sheet
writetable(T, 'Kp_Sweep_Data.xlsx', 'Sheet', sheet_name);
```

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