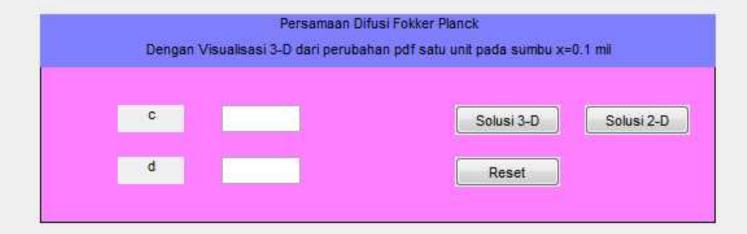
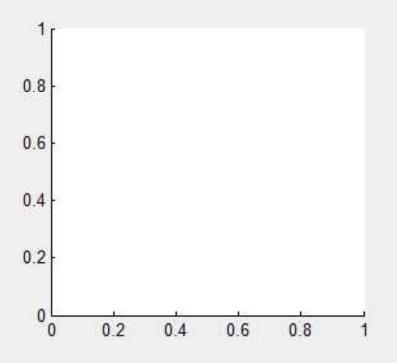
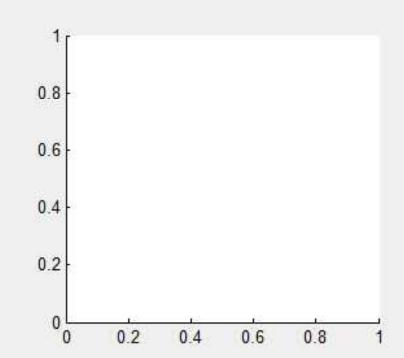
GUIDE MATLAB Membuat Grafik 3D dan 2D difusi fokker-plank

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Desain figure

- Static text 3 buah
- 1. Judul 1 buah
- 2. Variabel input 2 buah
- Push button 3 buah
- 1. Grafik 2 buah
- 2. Reset 1 buah

Function push_button1

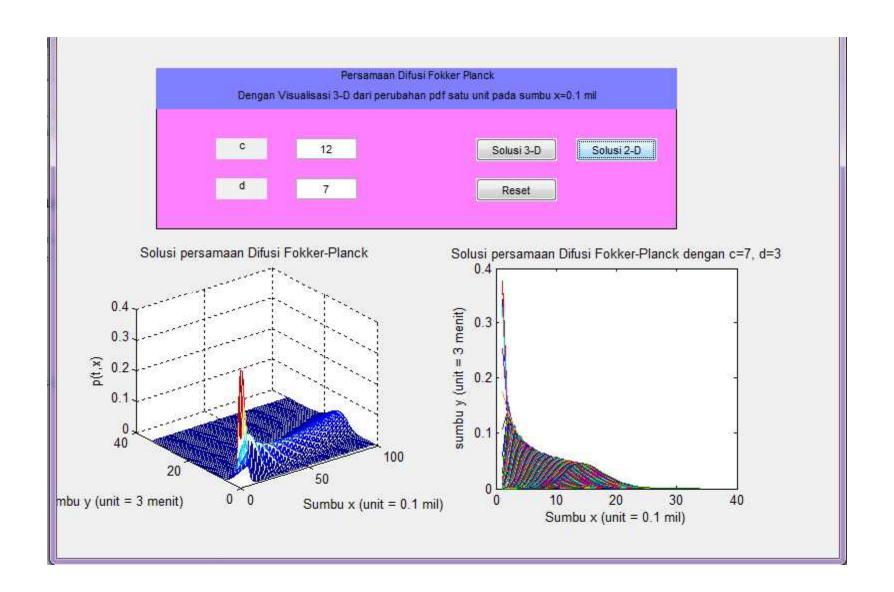
```
axes(handles.axes1)
c=str2num(get(handles.edit1,'String'))
   d=str2num(get(handles.edit2,'String'))
• t=[0 0.25 0.5 1 2];
x=c*t
   [x,t]=meshgrid(0.006:0.1:10,0.006:0.03:1);
p=(1./sqrt(4*pi.*d.*t)).*exp(-(x-2.*c.*t).^2./(4.*d.*t));
• p1=p/3.6112;
   axis([0 100 0 35 0 0.8]);
• %hold on;
   mesh(p1);
%hold off;
   Title('Solusi persamaan Difusi Fokker-Planck ');
   xlabel('Sumbu x (unit = 0.1 mil)');
ylabel('sumbu y (unit = 3 menit)');
   zlabel('p(t,x)');
```

Function push_button2

- set(handles.edit1,'String',' ');
- set(handles.edit2,'String',' ');

Function push_button3

```
axes(handles.axes2)
c=str2num(get(handles.edit1,'String'))
   d=str2num(get(handles.edit2,'String'))
• t=[0 0.25 0.5 1 2];
x=c*t
• [x,t]=meshgrid(0.006:0.1:10,0.006:0.03:1);
p=(1./sqrt(4*pi.*d.*t)).*exp(-(x-2.*c.*t).^2./(4.*d.*t));
• p1=p/3.6112;
   axis([0 100 0 35 0 0.8]);
• %hold on;
plot(p1,'-');
%hold off;
   Title('Solusi persamaan Difusi Fokker-Planck dengan c=7, d=3');
xlabel('Sumbu x (unit = 0.1 mil)');
  ylabel('sumbu y (unit = 3 menit)');
```



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