

```

clear; clc; close all
load case1_low
figure;
ax(1)=subplot(4,1,1); plot(volt_current.time, volt_current.signals(1).values);
ylabel('p.u.');
```

Phase voltage

```

grid on;
ax(2)=subplot(4,1,2); plot(volt_current.time, volt_current.signals(2).values);
ylabel('p.u.');
```

Phase current

```

grid on;title('Phase current')
ax(3)=subplot(4,1,3);plot(volt_current.time, volt_current.signals(3).values(:,1));
ylabel('p.u.');
```

RMS voltage

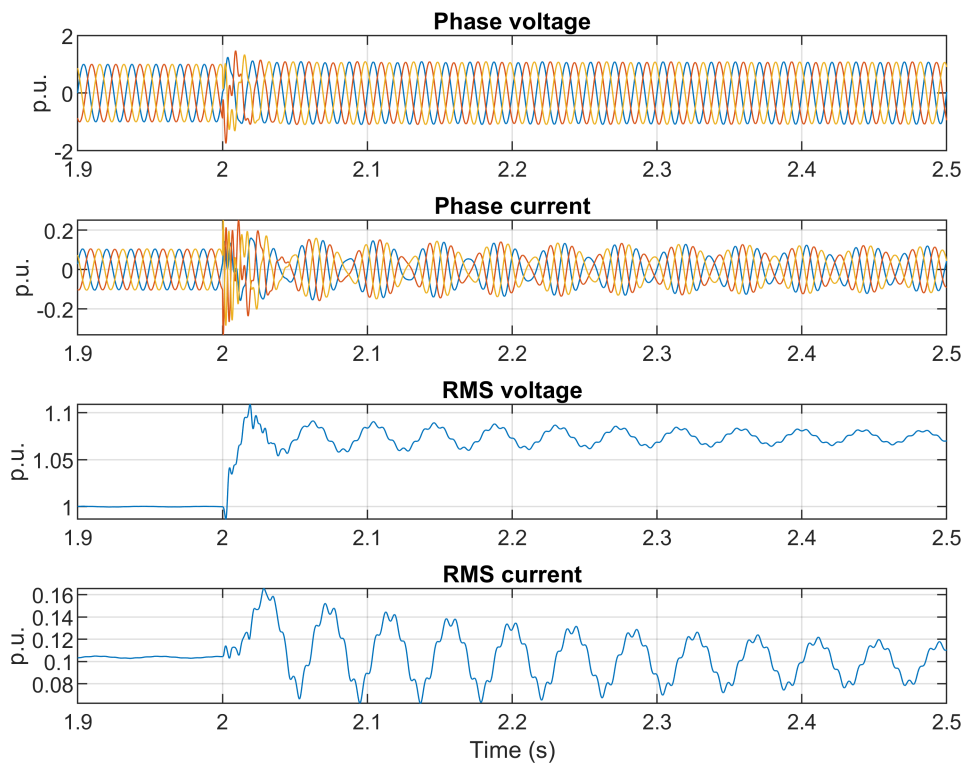
```

grid on; title('RMS voltage')
ax(4)=subplot(4,1,4);plot(volt_current.time, volt_current.signals(4).values(:,1));
ylabel('p.u.');
```

RMS current

```

grid on;title('RMS current')
%
linkaxes(ax,'x');
xlim([1.9,2.5]);
xlabel('Time (s)');
```



```

figure;
ax(1)=subplot(4,1,1); hold on; plot(sim_output.time, sim_output.signals.values(:,1));
title('P (pu)');
```

grid on; box on;

```

ax(2)=subplot(4,1,2); hold on;plot(sim_output.time, sim_output.signals.values(:,2));
title('Q (pu)');
```

grid on; box on;

```

ax(3)=subplot(4,1,3); hold on;plot(sim_output.time, sim_output.signals.values(:,3));
title('V_{PLL} (pu)');
```

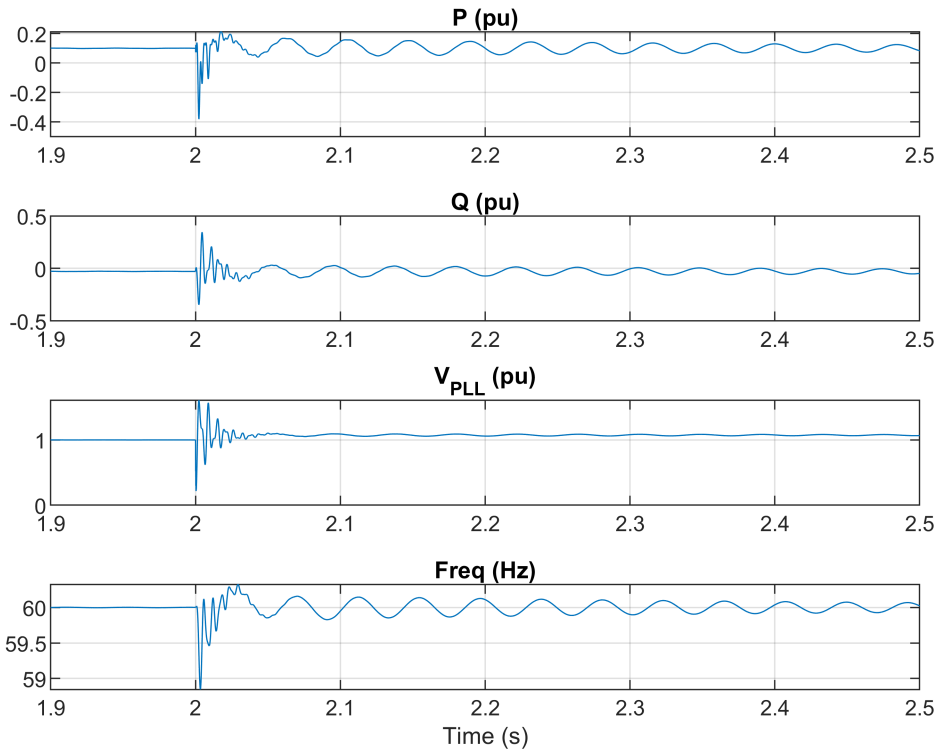
grid on; box on;

```

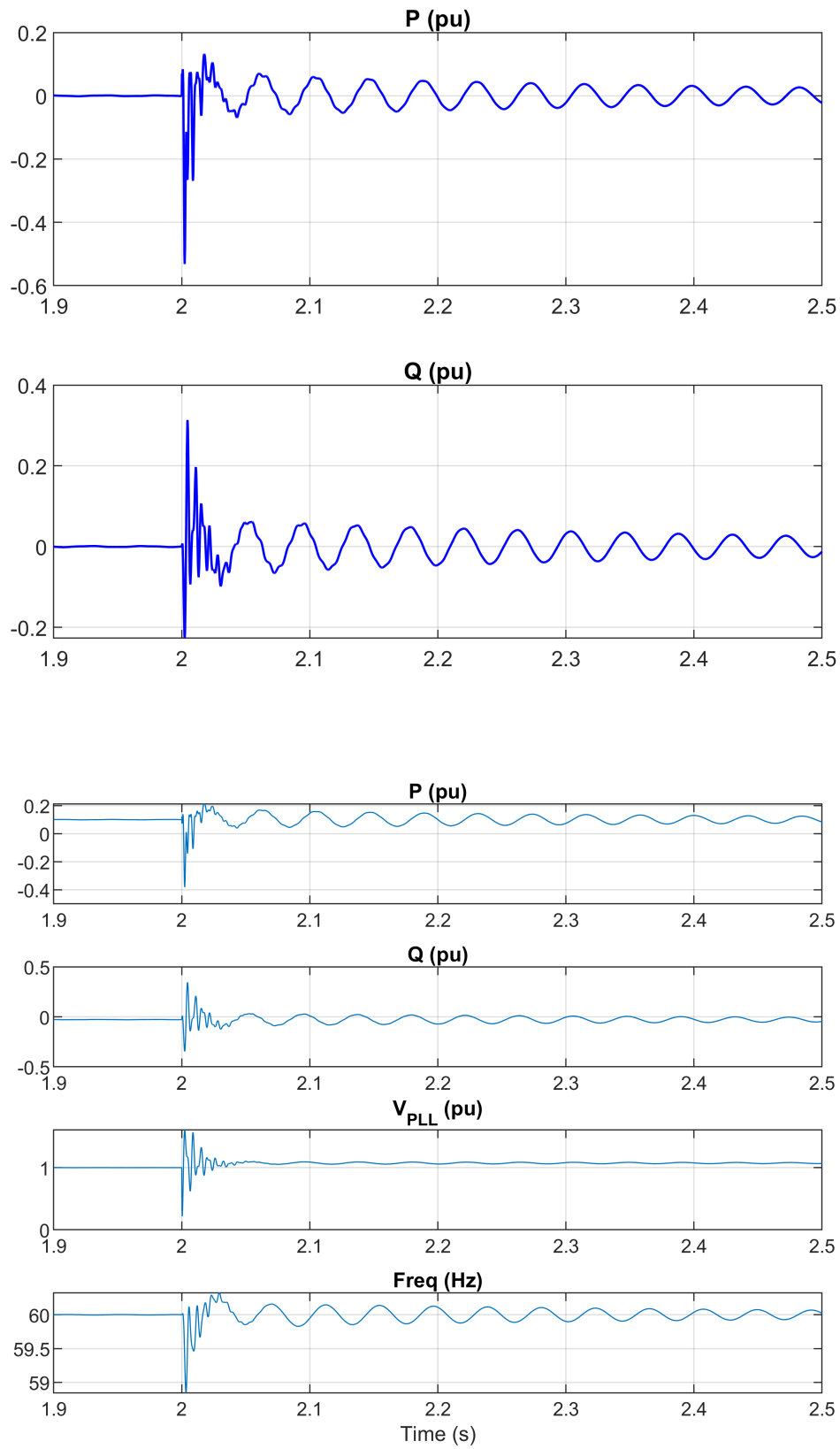
ax(4)=subplot(4,1,4); hold on;plot(sim_output.time, sim_output.signals.values(:,4));
title('Freq (Hz)');
```

grid on; box on;

```
%
linkaxes(ax,'x');
%xlim([0,4]);
xlabel('Time (s)');
linkaxes(ax,'x');
xlim([1.9, 2.5]);
```



```
figure(101);
load case1_zeropower
ax(1)=subplot(2,1,1); hold on;
plot(sim_output.time, sim_output.signals.values(:,1),'b','LineWidth',1);
title('P (pu)'); grid on; box on;
ax(2)=subplot(2,1,2); hold on;
plot(sim_output.time, sim_output.signals.values(:,2),'b','LineWidth',1);
title('Q (pu)'); grid on; box on;
linkaxes(ax,'x');
xlim([1.9, 2.5]);
```



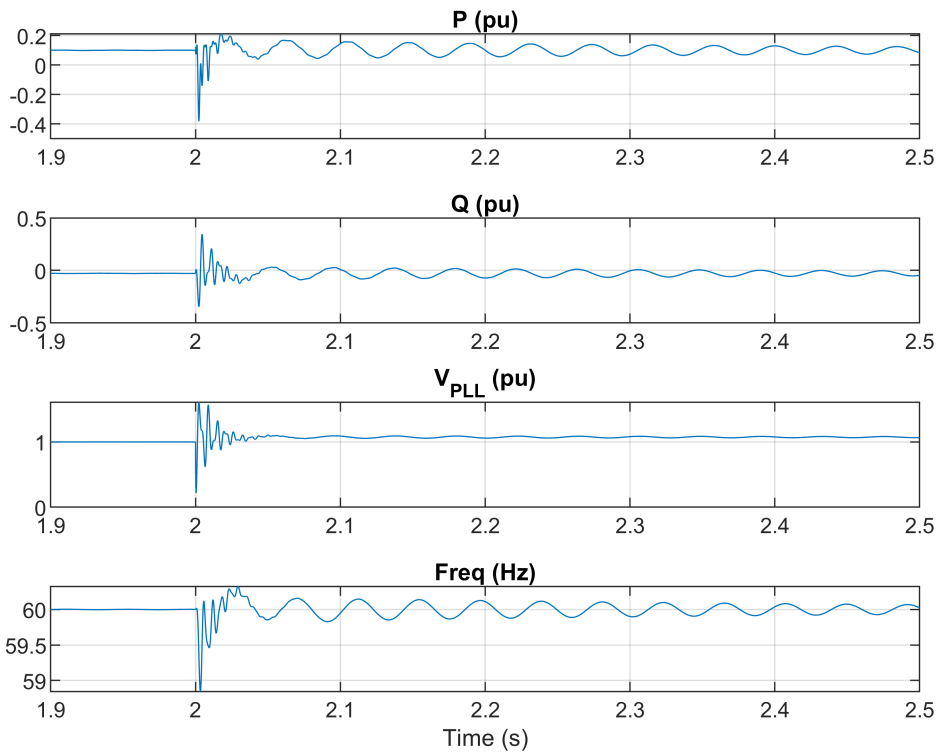
```
figure(101);
```

```

load case1_low
subplot(2,1,1); hold on;
plot(sim_output.time, sim_output.signals.values(:,1), 'k', 'LineWidth', 1);
subplot(2,1,2); hold on;
plot(sim_output.time, sim_output.signals.values(:,2), 'k', 'LineWidth', 1);
%

%figure(100);
load case1_high
subplot(2,1,1); hold on;
plot(sim_output.time, sim_output.signals.values(:,1), 'r', 'LineWidth', 1);
subplot(2,1,2); hold on;
plot(sim_output.time, sim_output.signals.values(:,2), 'r', 'LineWidth', 1);
linkaxes(ax, 'x');
xlim([1.9, 2.5]);

```



```

legend('zero power', 'low power', 'high power');
xlabel('Time (s)');

```

