

chapter5_5 Analyzing instrumentation op-amps

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% Onwubolu, G. C.  
% Mechatronics: Principles & Applications  
% Elsevier  
%  
% Mechatronics: Principles & Applications Toolbox Version 1.0  
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%  
% Chapter 5: Operational amplifiers  
%  
% Example 5.5  MATLAB's calculating power is demonstrated by analyzing  
% instrumentation op-amps  
  
'Example 5.5'          % Display label.  
% op-amps  
R1=5E+3;  
R2=20E+3;  
R3=15E+3;  
Rg=3E+3;  
V2=15;  
V1=10;  
  
% Commence computation  
'Gain:'  
G=(R2/R1)*(1+2*R3/Rg) %Vout/Vi=G  
'Output voltage'  
Vout=(V2-V1)*G  
pause
```