

chapter5_4 analyzing difference op-amps

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% Onwubolu, G. C.  
% Mechatronics: Principles & Applications  
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% Mechatronics: Principles & Applications Toolbox Version 1.0  
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%  
% Chapter 5: Operational amplifiers  
%  
% Example 5.4 MATLAB's calculating power is demonstrated by analyzing  
% difference op-amps  
  
'Example 5.4'           % Display label.  
% op-amps  
R1=5E+3;  
R2=15E+3;  
V1=15;  
V2=10;  
  
% Commence computation  
'Gain:'  
G=R2/R1 %Vout/Vi=G  
'Output voltage'  
Vout=(V1-V2)*G  
pause
```