

## Chapter 5: Analog electronics

### chapter5\_1 Analyzing inverting op-amps

```
% Onwubolu, G. C.  
% Mechatronics: Principles & Applications  
% Elsevier  
%  
% Mechatronics: Principles & Applications Toolbox Version 1.0  
% Copyright © 2005 by Elsevier  
%  
% Chapter 5: Operational amplifiers  
%  
% Example 5.1 MATLAB's calculating power is demonstrated by analyzing  
% inverting op-amps  
  
'Example 5.1'           % Display label.  
% op-amps  
Rf=8E+3;  
Ri=4E+3;  
Vi=5E-3;  
  
% Commence computation  
  
'Gain:'  
G=-Rf/Ri %Vout/Vi=G  
'Output voltage'  
Vout=Vi*G  
  
pause
```