

chapter2_2 solves the passive element circuit based on mesh analysis

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% Onwubolu, G. C.  
% Mechatronics: Principles & Applications  
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%  
% Chapter 2.3: Electrical components and circuits  
%  
% Example 2.9 MATLAB's calculating power is demonstrated by analyzing  
circuits  
% using mesh/nodal analyses methods. We consider some examples.  
  
'Example M2.9' % Display label.  
% matrice manipulation  
A=[113 0 -100; 0 35 -22; 100 22 -192]; %Problem 3 with sol: i1=2.6; i2=4.3;  
i3=185  
Y=[110 110 0];  
% A*X=Y;  
X=A\Y'  
'current'  
X=A\Y'  
'voltage'  
Vx(1)=(X(1)-X(3))*100; Vx(2)=(X(3)-X(2))*22; Vx(3)=X(3)*70;  
V=Vx  
pause
```