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% =====
% ECE 1050 Lab M2 :
% My script file for practicing with Voltage Dividers
% =====
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% Sept 29, 2023
%=====
% Define resistor values ( kohm ).
R1 = 1;
R2 = 1.5;
% define Voltage (V)
Vs = 5;
%Calculate

Rs = R1 + R2;
Is = Vs/Rs;
Vout = Is.*R2;

% Potenimenter over writes
Rs = 15; %Kohm
R1 = linspace(0,Rs,11);
R2 = Rs - R1;
%Vout = Vs*R2/Rs;
%Vout= Vs*R2/(R1+R2)
Vout = Vs*R2./(R1 + R2)
Is = Vs/Rs;
% Plot
figure (1);
clf ;
plot (R2 /1e3, Vout, "ok", 'LineWidth',2);
xlabel ( " R2 (k\Omega) " );
ylabel ( " Vout ( V ) " );

P2 = (Is^2)*R2;
figure (2);
clf ;
plot (R2 , P2, "or", 'LineWidth',2);
xlabel ( " R2 (k\Omega) " );
ylabel ( " Power out ( mW ) " );

Error using evalin
Unrecognized function or variable 'VoltageDivider'.

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