



# Linear Circuits

BONNIE FERRI, PROFESSOR AND ASSOCIATE CHAIR  
School of Electrical and Computer Engineering

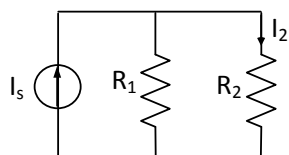


## Module 2 Lesson 6: Current Divider Law

# Current Divider Law

Objective:

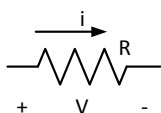
- Be able to use



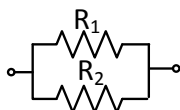
Current Divider Law

## Builds Upon:

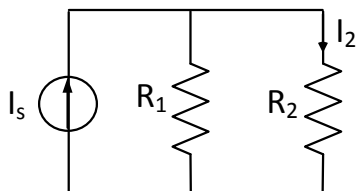
- Ohm's Law:  $V=iR$



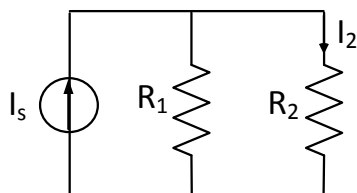
- Resistors in parallel:  $R_{eq} = \frac{R_1 R_2}{R_1 + R_2}$



## Current Divider Law



$$I_2 = \frac{R_1}{R_1 + R_2} I_s$$



$$I_2 = \frac{R_1}{R_1 + R_2} I_s$$

## Recognize When to use Current Divider Law

