

Example 4: Problem 2.2

4. The voltage regulator shown in the figure.

Consider analysis:

Fig. 2.27, p. 88



2.27

Find voltage and current for each resistor and regulator. Indicate direction of current and voltage must be indicated.



$$\frac{V_{out}}{V_{in}} = \frac{R_2}{R_1 + R_2}$$

First subproblem: $V_{in} = 12V$

Assume $V_{out} = 10V$, solve for V_{in} circuit working



2.27

Find V_{out} and I_{Z} for $V_{in} = 12V$. Indicate direction of current and voltage. The same direction must be shown during all calculations.

Indicate voltage and regulator currents for this subproblem!

$$V_{in} = 12V, \quad V_{out} = 10V, \quad I_{Z} = 10mA, \quad I_{L} = 10mA, \quad I_{R1} = 10mA, \quad I_{R2} = 10mA$$

Erickson Power Electronics Solution Manual

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