

# **Faculty of Engineering & Technology**

# **Electrical & Computer Engineering Department**

**ENEE236**

**Assignment 1**

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**Instructor : Dr. Nasser Ismail**

**Section Number : 1**

**Date : 4/8/2020**

# Objectives

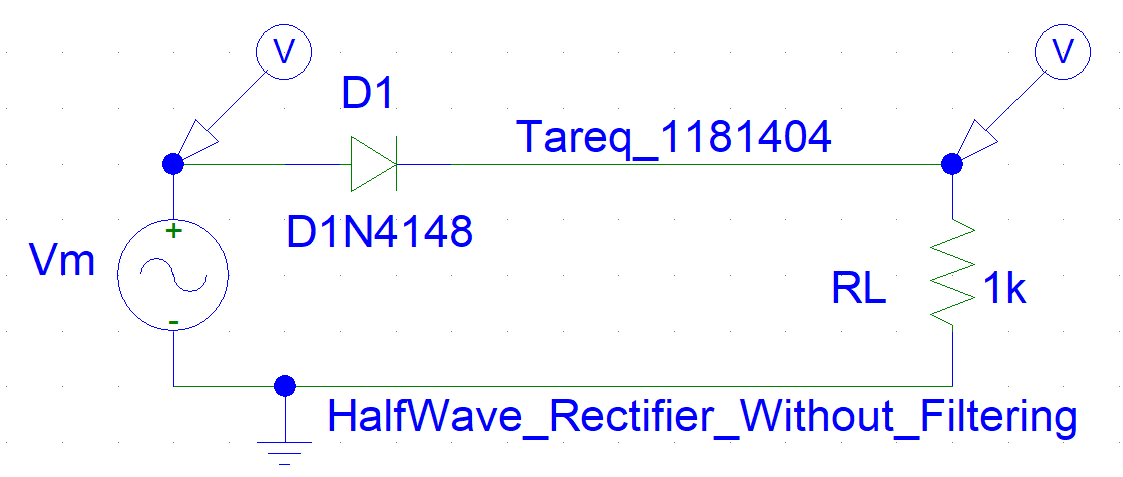
* Design Half-Wave Rectifier on PSpice
* Design Bridge Full-Wave Rectifier
* Design CT Transformer Full-Wave Rectifier

## Half-Wave Rectifier

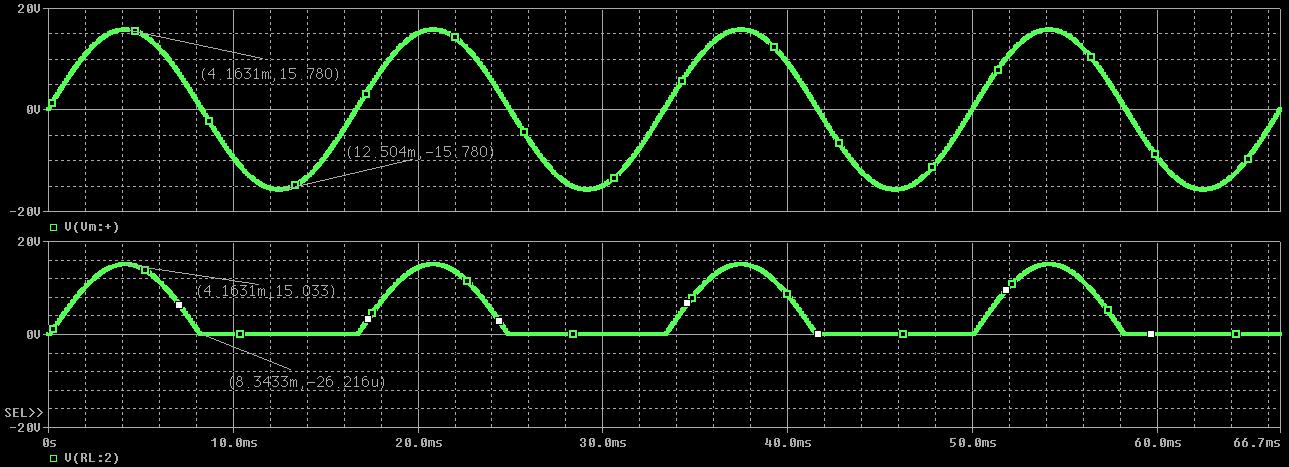
### Calculations

### 

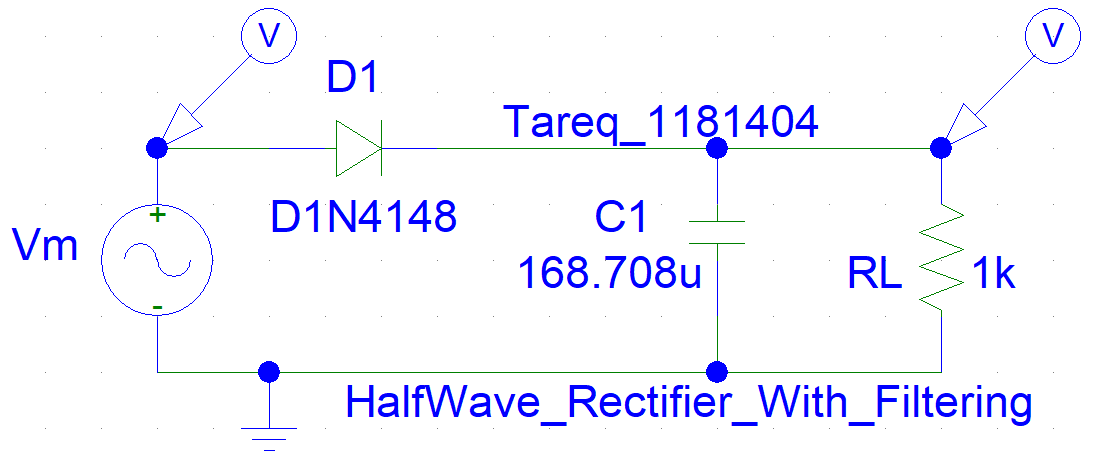
### Circuit without Filtering



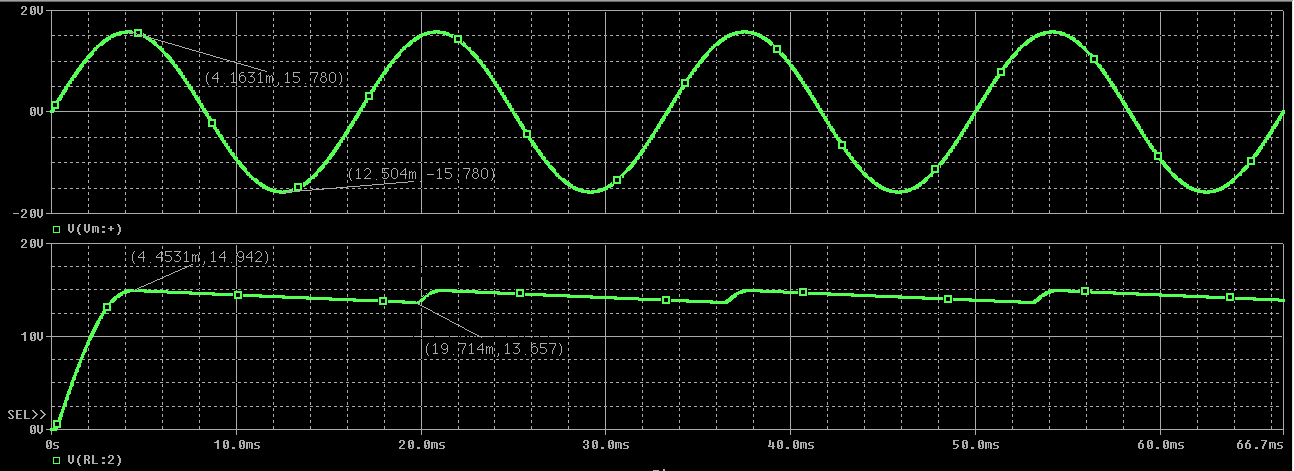
### Simulation



### Circuit with Filtering



### Simulation

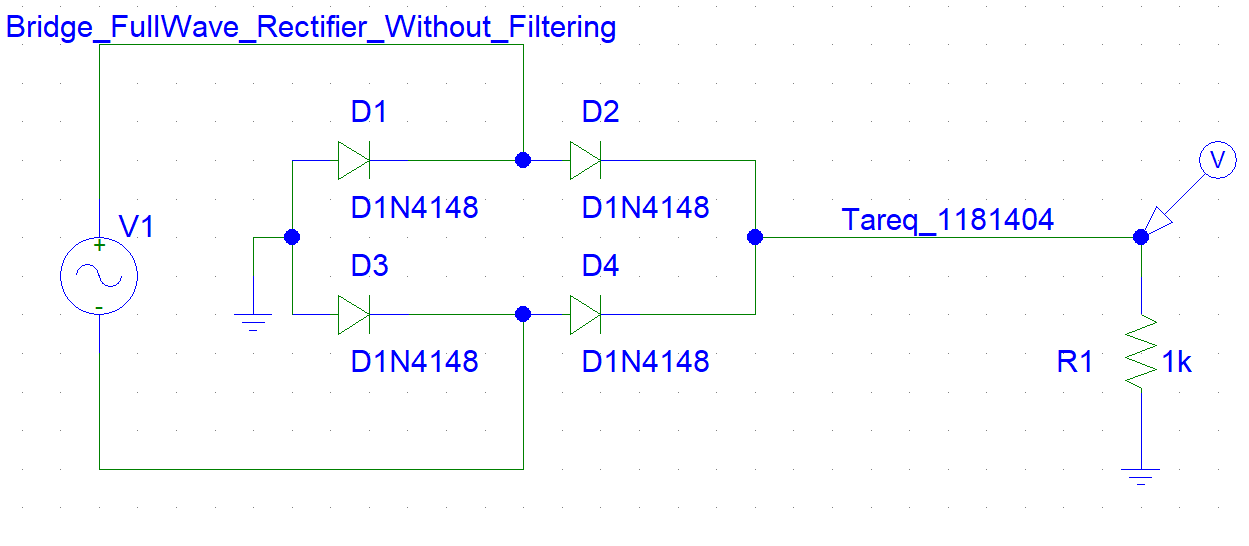


## Bridge Full-Wave Rectifier

### Calculations

### 

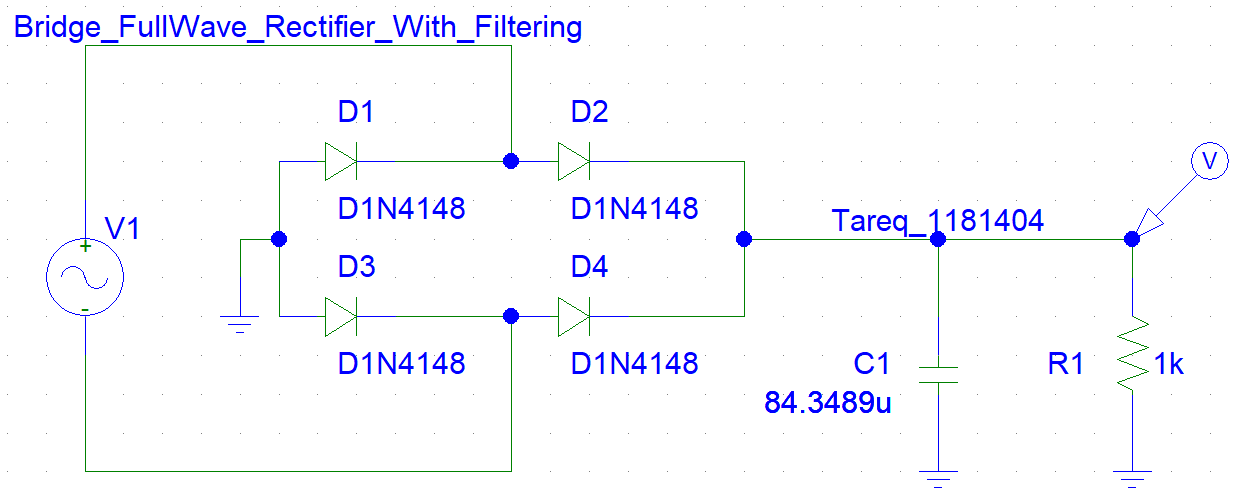
### Circuit without Filtering



### Simulation



### Circuit with Filtering



### Simulation

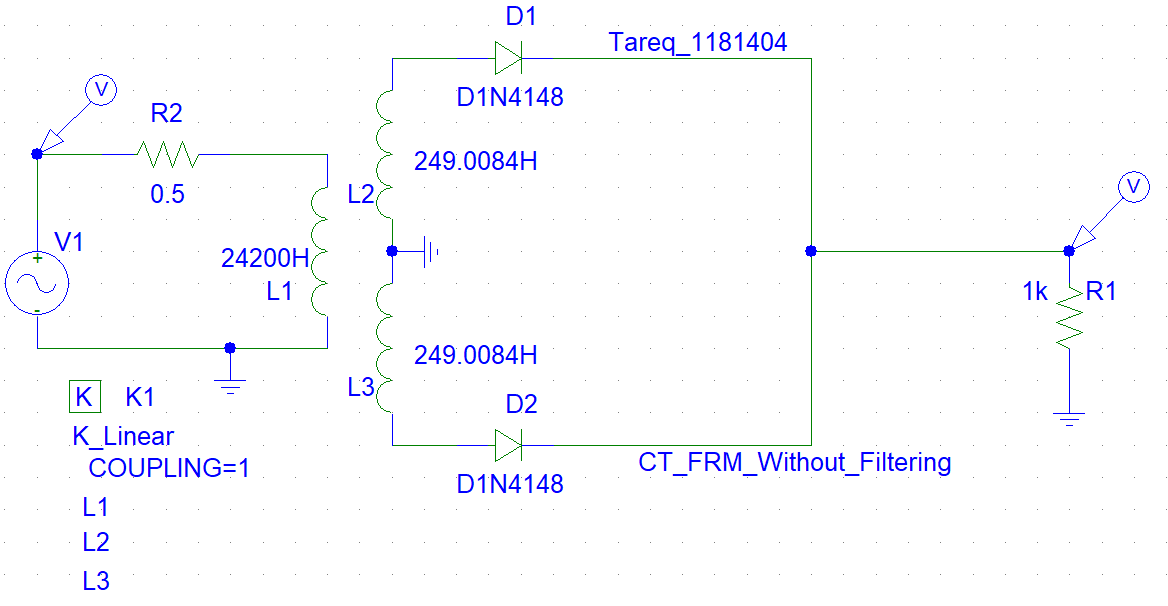


## CT Transformer Full-Wave Rectifier

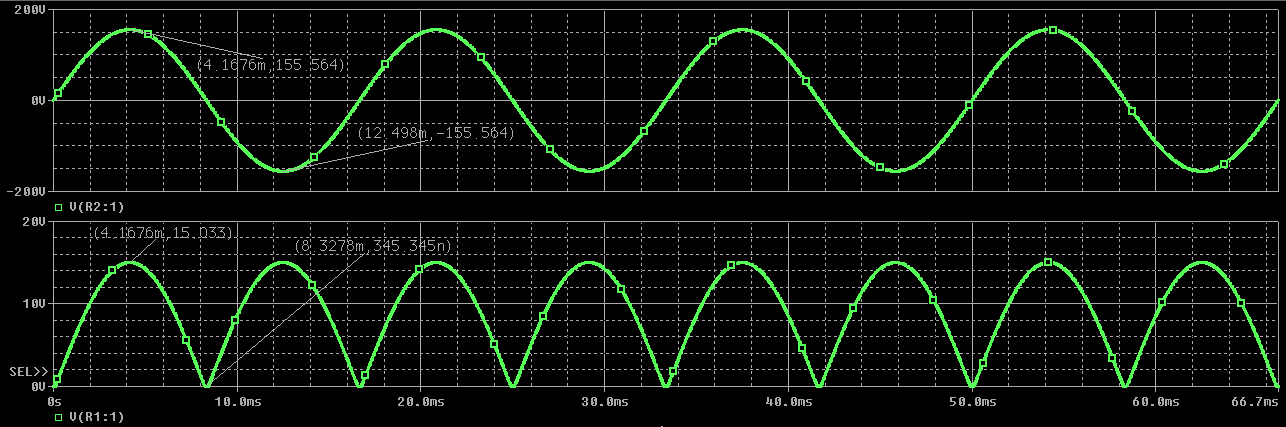
### Calculations

### 

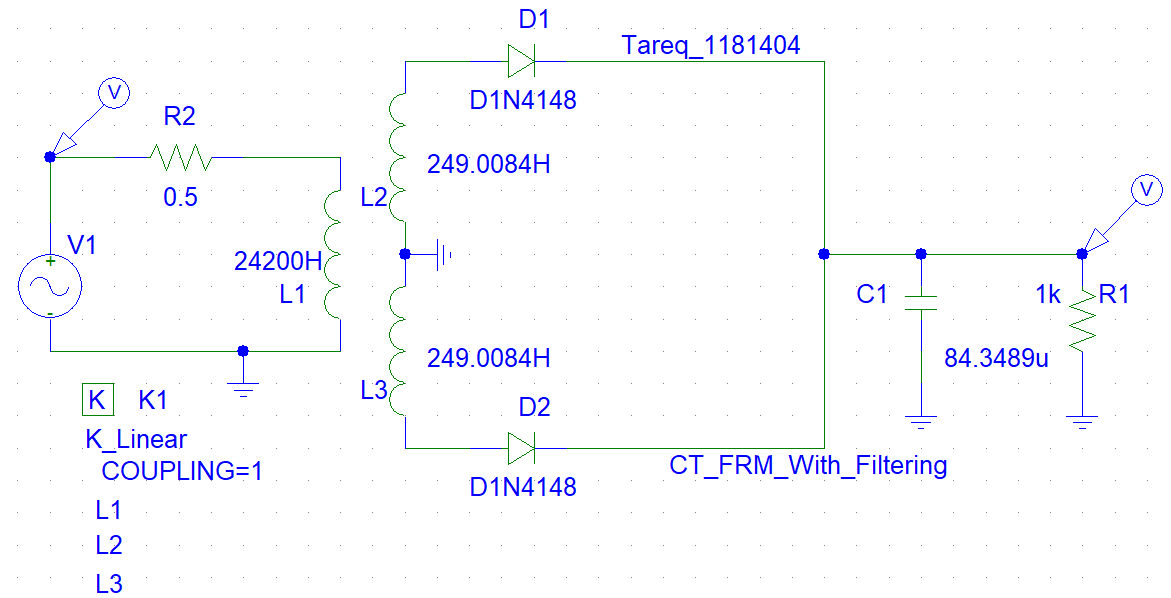
### Circuit without Filtering



### Simulation



### Circuit with Filtering



### Simulation

