Scilab Manual for Power Electronics Lab by Prof C Harinatha Reddy Electrical Engineering G Pulla Reddy Engineering College ¹

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Uncontrolled 1-phase Half and Full wave rectifier with R load

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Uncontrolled 3-phase Half wave and Full wave rectifier

This code can be downloaded from the website wwww.scilab.in

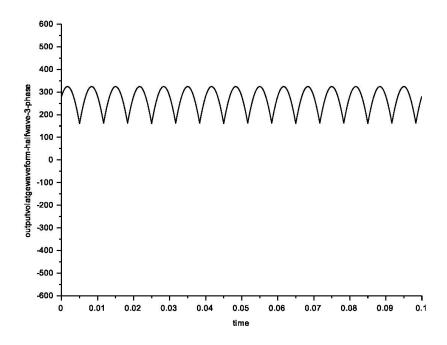


Figure 2.1: Circuit Diagram of 3 phase Half Wave uncontrolled Rectifier with R load $\,$

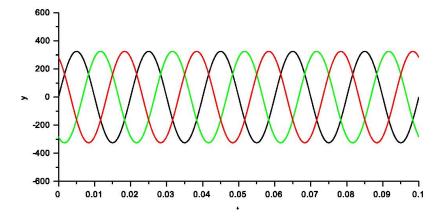


Figure 2.2: Circuit Diagram of 3 phase Half Wave uncontrolled Rectifier with R load $\,$

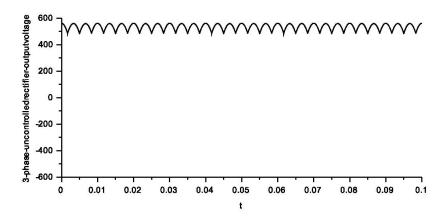


Figure 2.3: Circuit Diagram of 3 phase Full Wave uncontrolled Rectifier with R load $\,$

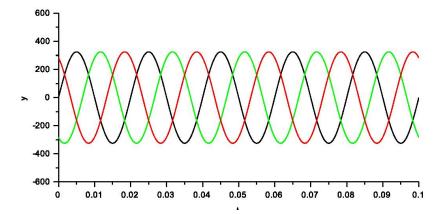


Figure 2.4: Circuit Diagram of 3phase Full Wave uncontrolled Rectifier with R load

Controlled 1-phase Half and Full wave rectifier with R Load

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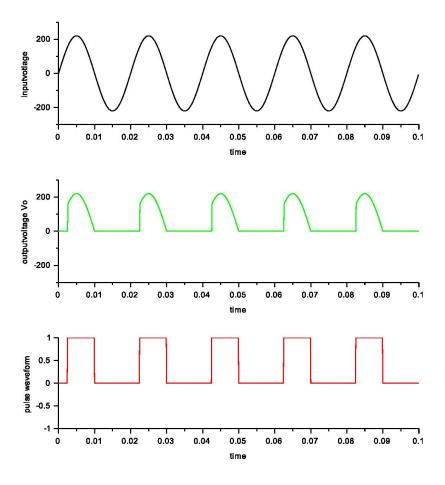


Figure 3.1: Circuit Diagram of 1
phase Half Wave controlled Rectifier with R
 $\log d$

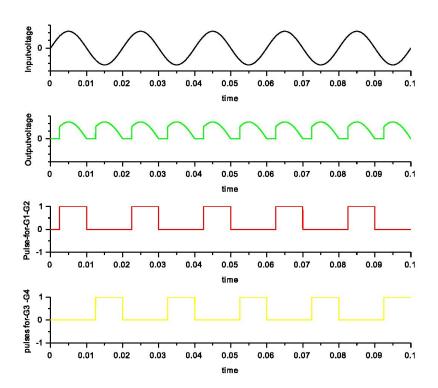


Figure 3.2: Circuit Diagram of 1
phase Full Wave uncontrolled Rectifier with R $\log d$

Controlled 3-phase Half and Full wave rectifier with R Load

This code can be downloaded from the website wwww.scilab.in

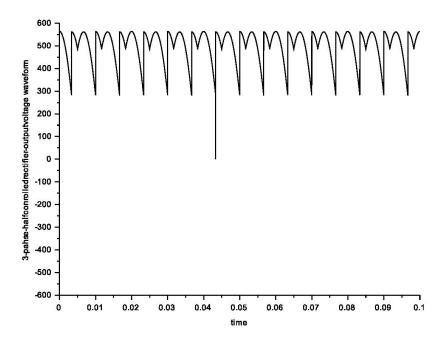


Figure 4.1: Circuit Diagram of 3phase Half controlled Rectifier with R load

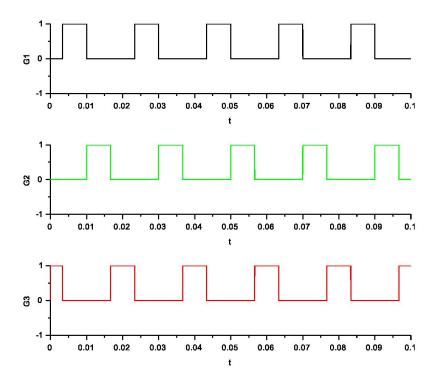


Figure 4.2: Circuit Diagram of 3 phase Half controlled Rectifier with R load

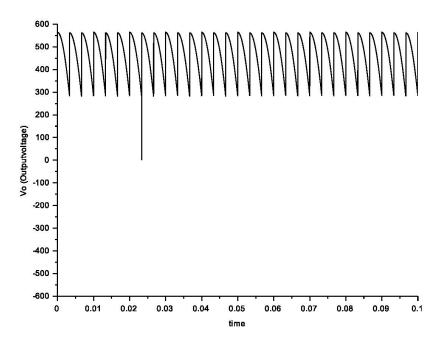


Figure 4.3: Circuit Diagram of 3 phase Full Wave controlled Rectifier with R load

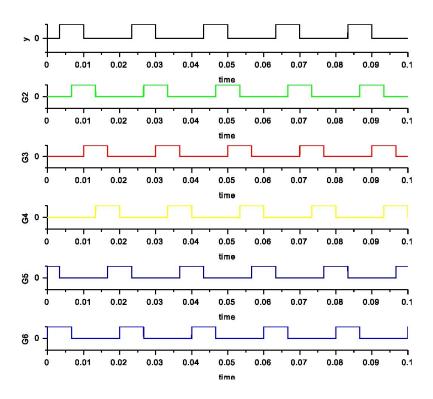


Figure 4.4: Circuit Diagram of 3 phase Full Wave controlled Rectifier with R load

Step Down and Step up chopper with R load

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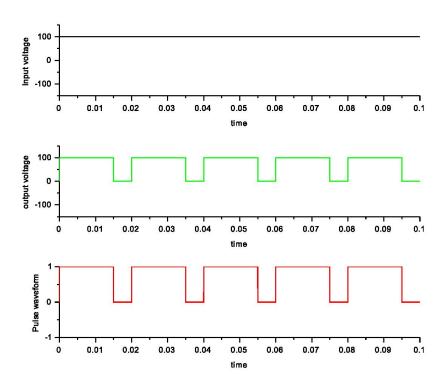


Figure 5.1: Circuit Diagram of Step Downchopper with R load

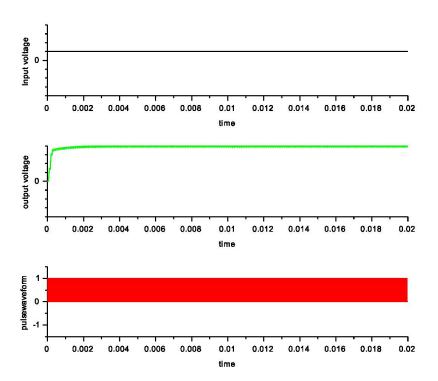


Figure 5.2: Circuit Diagram of Step Up chopper with R load

1-phase AC- voltage controller with R load

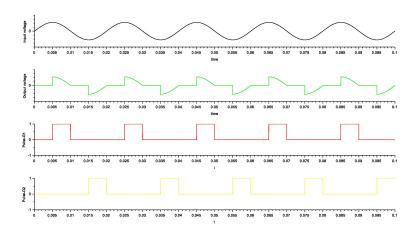


Figure 6.1: Circuit Diagram of 1
phase AC Vokltage controller with R load

1-phase Inverter (Half Bridge and H bridge) with R load

This code can be downloaded from the website wwww.scilab.in This code

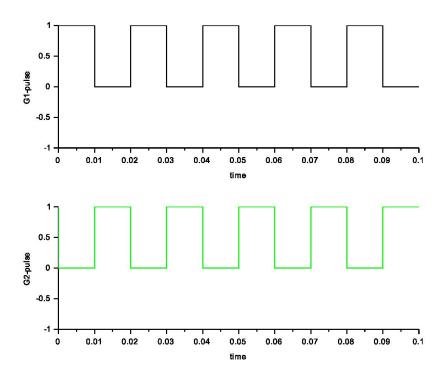


Figure 7.1: Circuit Diagram of Half bridge Inverter with R load

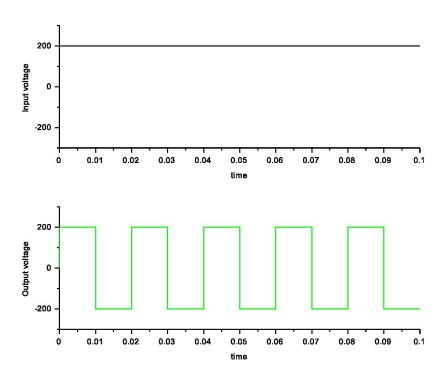


Figure 7.2: Circuit Diagram of Half bridge Inverter with R load

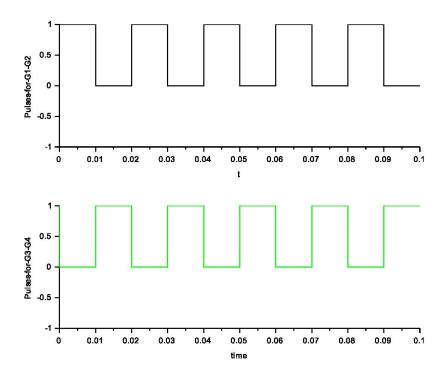


Figure 7.3: Circuit Diagram of Full bridge Inverter with R load

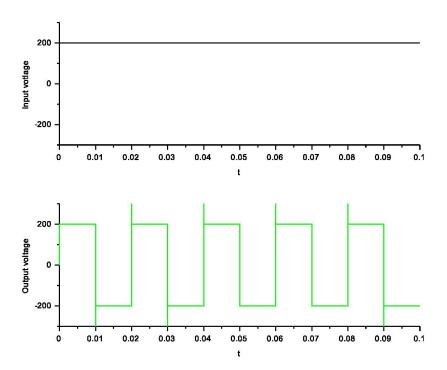


Figure 7.4: Circuit Diagram of Full bridge Inverter with R load