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**HOMEWORK 1**

Problem: Simulate the single-phase bridge and three-phase bridge thyristor rectifier with resistor load, and RL load respectively

A, Three-phase bridge thyristor rectifier with R load

A picture containing text, diagram, number, parallel

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A picture containing line, plot, screenshot, text

Description automatically generated

Va, Vb, Vc: Voltage at source

IR: Current at load

VR: Voltage at load

B, Three-phase bridge thyristor rectifier with RL load (L = ꝏ)

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A picture containing line, plot, diagram, slope

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Vd, Ve, Vf: Voltage at source

IRL: Current at load

VRL: Voltage at load

C, Single-phase bridge thyristor rectifier with R load

A picture containing text, diagram, line, plot

Description automatically generated

A picture containing line, plot, diagram, parallel

Description automatically generated

Us: Voltage at source

IR: Current at load

UR: Voltage at load

D, Sigle-phase bridge thyristor rectifier with RL load (L = ꝏ)

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Description automatically generated

A picture containing line, plot, parallel, text

Description automatically generated

Us\_: Voltage at source

IRL: Current at load

VRL: Voltage at load