The circuit is drawn as

Diagram

Description automatically generated

Test Bench Simulation Results for Diode circuit

The Xdc vector was returned as

Xdc =

2.0000

1.2245

-0.0245

This corresponds to a V1 = 2.0000 V, V2 = 1.2245 and I1 = -0.0245 A.

The norm of Δx was plotted for each iteration.

Chart, Excel, line chart

Description automatically generated

LC Filter 1

Chart, line chart

Description automatically generated

Chart, line chart

Description automatically generated

LC Filter 2

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generated

LC Filter 3

Chart, line chart

Description automatically generated

Chart, line chart

Description automatically generated

CIR 4

Chart, line chart

Description automatically generated

Chart, line chart

Description automatically generated

Active Chebychev Filter Low Gain OpAmp

Chart, line chart

Description automatically generated

Chart, line chart

Description automatically generated

Active Chebychev Filter High Gain OpAmp

Chart, line chart

Description automatically generated

Chart, line chart

Description automatically generated