



# Universidad Autónoma de Coahuila

## Facultad de Ingeniería Mecánica y Eléctrica

### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15128916</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>PEDRO FRAIRE SOLÍS</b>		

## Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on a A4 or a letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

## Questions

Design and perform an experiment to observe the V-I characteristics of p-n junction diode. Carryout in the following two stages.

**Stage 1** Design the experiment and prepare the report with the following points. (10 points)

1. Objective (2 points)
2. Experimental setup, i.e. circuit diagram (2 points)
3. Apparatus required (2 points)
  - (a) Materials
  - (b) Equipment
4. Procedure (4 points)

**Stage 2** Perform the experiment and finish the report by including the following points. (10 points)

1. Collected data (2 points)
2. Plot the obtained data on a graph-sheet (4 points)
3. Results and discussions (2 points)
4. Conclusions (2 points)



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## Facultad de Ingeniería Mecánica y Eléctrica

### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15132525</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b><i>JULIO CÉSAR LOZANO ALMAGUER</i></b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15158174</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JORGE LUIS DÍAZ ENRÍQUEZ</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15149897</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b><i>JULIO CÉSAR GARCÍA CASTILLO</i></b>		

## Instructions

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## Facultad de Ingeniería Mecánica y Eléctrica

### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15133897</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>VÍCTOR MANUEL GARCÍA CARRILLO</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15132740</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JOVANA SOLEDAD GARCÍA REYES</b>		

## Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15141730</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>VÍCTOR MANUEL PUENTES RODRÍGUEZ</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	15153534
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b><i>JOSÉ ANTONIO RINCÓN ACOSTA</i></b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15149344</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>FABIÁN ALONSO SOTO LUNA</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15140545</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>MAYRA SELENE MIRELES CARDOZA</b>		

## Instructions

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## Facultad de Ingeniería Mecánica y Eléctrica

### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15315202</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>ALAN M. CABRERA MORA</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>13056433</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>DANIEL ALEJANDRO CARRILLO HERNÁNDEZ</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15122162</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>ORLANDO BARBOZA GARCÍA</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>10069634</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>EDUARDO TORRES GOITIA</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15157355</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>VICTOR SIFUENTES VARGAS</b>		

## Instructions

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	14576492
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>JONATHAN RODRÍGUEZ CHÁVEZ</b>		

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### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	<b>15129708</b>
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>LUIS FERNANDO CASTAÑEDA QUIROGA</b>		

## Instructions

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## Facultad de Ingeniería Mecánica y Eléctrica

### Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	14317737
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>VANESA IRANÍ MORA MORENO</b>		

## Instructions

1. The student should submit the homework on or before the due date. (LATE SUBMISSION = 0 MARKS)
2. Answers should be hand written on a A4 or a letter size bond papers. (20% of the marks obtained will be reduced)
3. The student should print his/her corresponding question-paper and staple it along with his/her answer sheets. (20% of the marks obtained will be reduced)
4. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

## Questions

Design and perform an experiment to observe the V-I characteristics of p-n junction diode. Carryout in the following two stages.

**Stage 1** Design the experiment and prepare the report with the following points. (10 points)

1. Objective (2 points)
2. Experimental setup, i.e. circuit diagram (2 points)
3. Apparatus required (2 points)
  - (a) Materials
  - (b) Equipment
4. Procedure (4 points)

**Stage 2** Perform the experiment and finish the report by including the following points. (10 points)

1. Collected data (2 points)
2. Plot the obtained data on a graph-sheet (4 points)
3. Results and discussions (2 points)
4. Conclusions (2 points)



# Universidad Autónoma de Coahuila

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### Unidad Torreón

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Degree	Electrical engineering	Date	06/03/2017
Exam / Homework	Homework 4: Clipper and clamper	Registration #	7272835
Professor's name	Suresh Kumar Gadi	Marks Obtained	____ / 10
Student's name	<b>CASTREJÓN ALFARO SERGIO PABLO</b>		

## Instructions

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