

Ve320 final exam covers the following contents:

* 6.2 Non-ideal Effects

7.1-7.2 Reverse-bias Junction Capacitance (follow my slides)

* 7.2 Diffusion Capacitance (follow my slides)

* 9.1-9.2.1 Photodiodes

* 9.3.1 Solar Cell Basics

* 9.4.1 LED Overview

10 BJT Fundamentals

11.1 Ideal BJT

* 11.2 (except 11.2.7) Non-ideal BJT

14.1-14.2.2 MS Diode Fundamentals and I-V Characteristics

* 14.3 Rectifying and Ohmic Contacts

16 (except 16.4.2) MOS Fundamentals

17.1-17.2.2 MOSFET

* 17.2.3-17.2.4 Bulk Charge Theory and Exact Charge Theories

* 18 Non-ideal MOS

Note:

1. All the contents with a star () only requires qualitative understanding, although some **very simple** calculations may appear in the final exam.*

2. The course contents before mid-term are the fundamentals of this course, so there is no guarantee that they will not appear in the final. But the final exam will be focusing on the course contents listed above.