Semiconductor devices

Thorbjørn Erik Køppen Christensen $\label{eq:June 18, 2018}$

Part I

Fundamentals of the Metal-Oxide-Semiconductor Field-Effect Transistor (MOSFET)

- 1 The two-terminal MOS structure
- 2 Capacitance-voltage characteristics
- 3 The basic MOSFET operation

Part II Optical devices

- 4 Optical absorption
- 5 Solar cells
- 6 Photoluminescence and Electroluminescence
- 7 Light emitting diodes