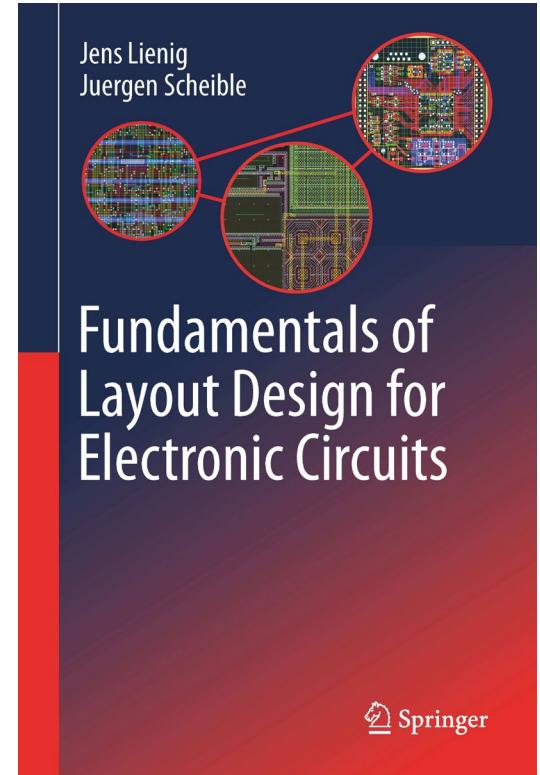
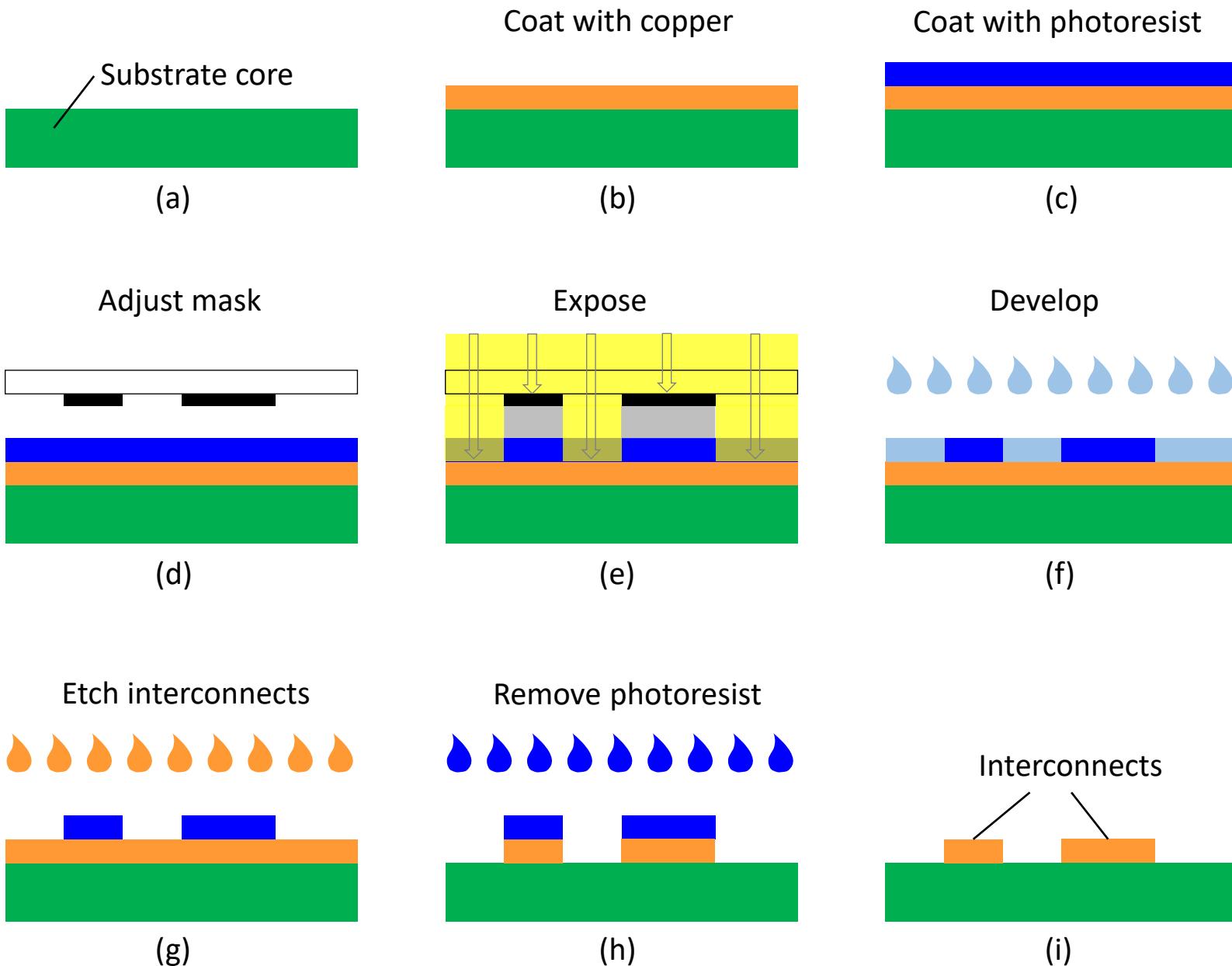


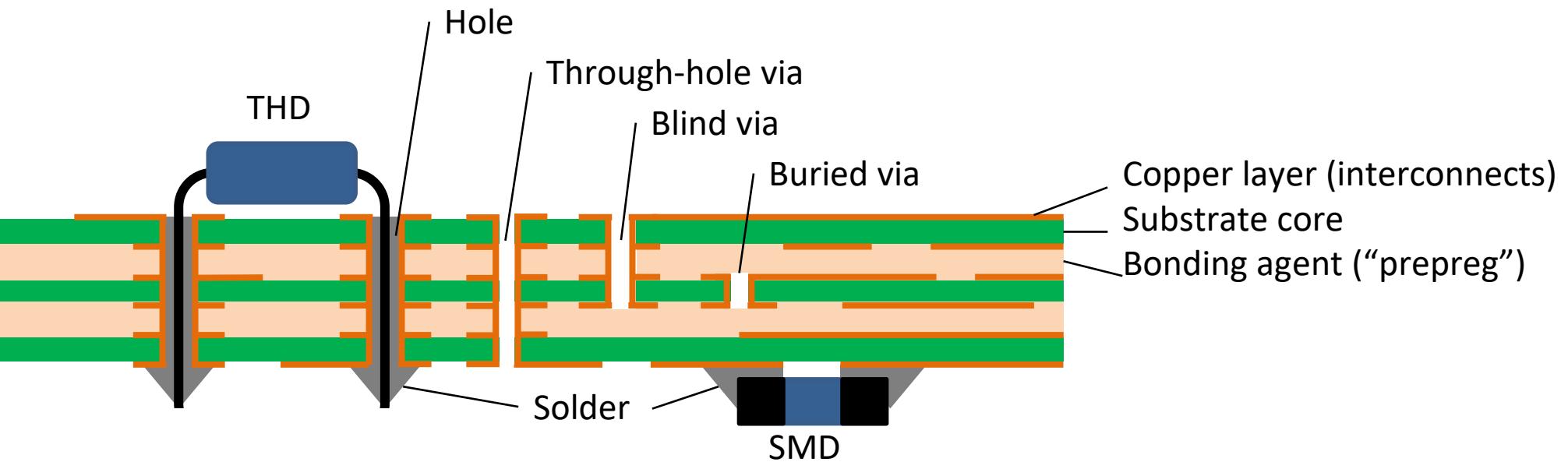
- 1.1 Electronics Technologies
- 1.2 Integrated Circuits
- 1.3 Physical Design
- 1.4 Motivation and Structure of This Book

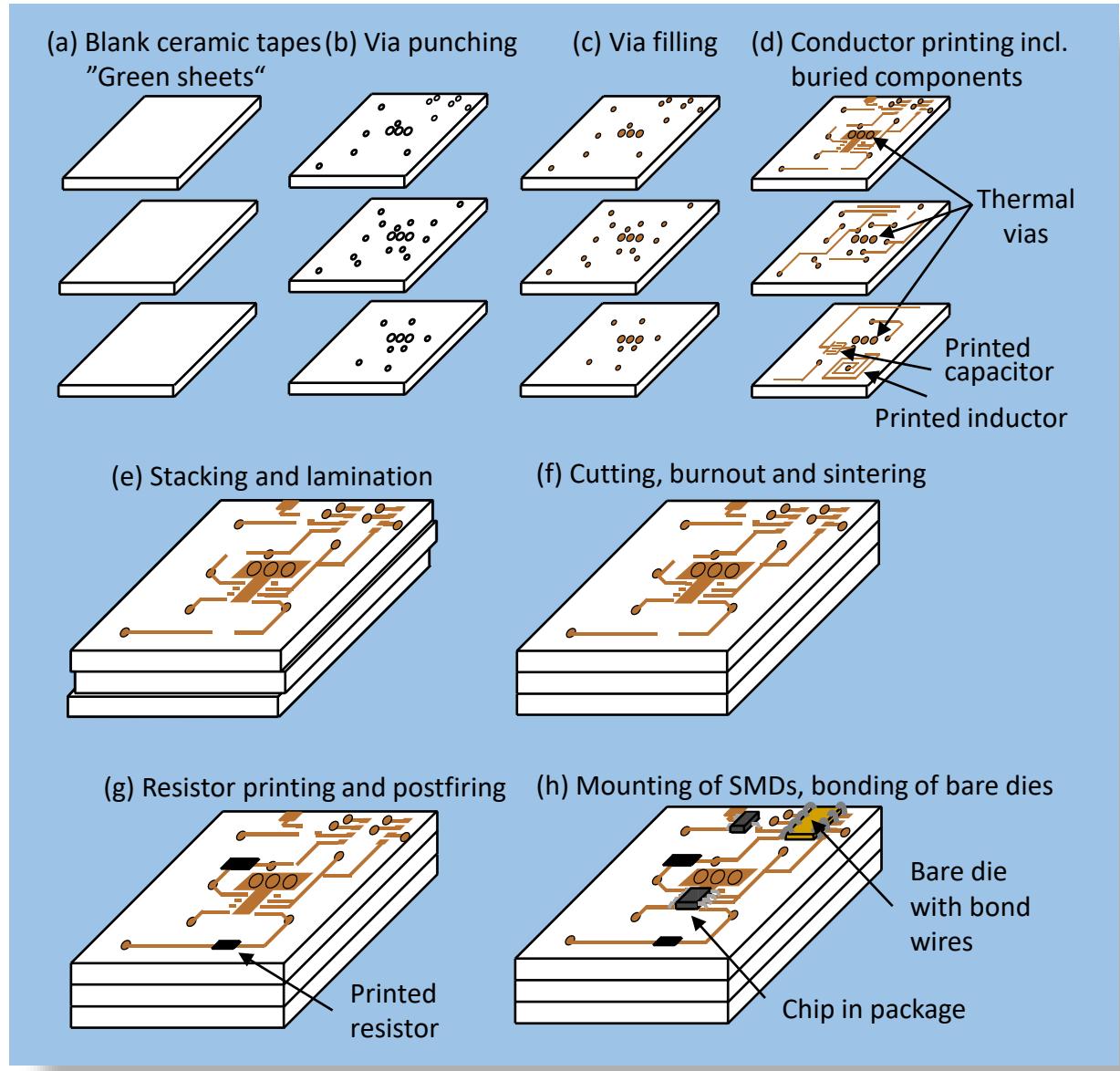


Chapter 1: Introduction

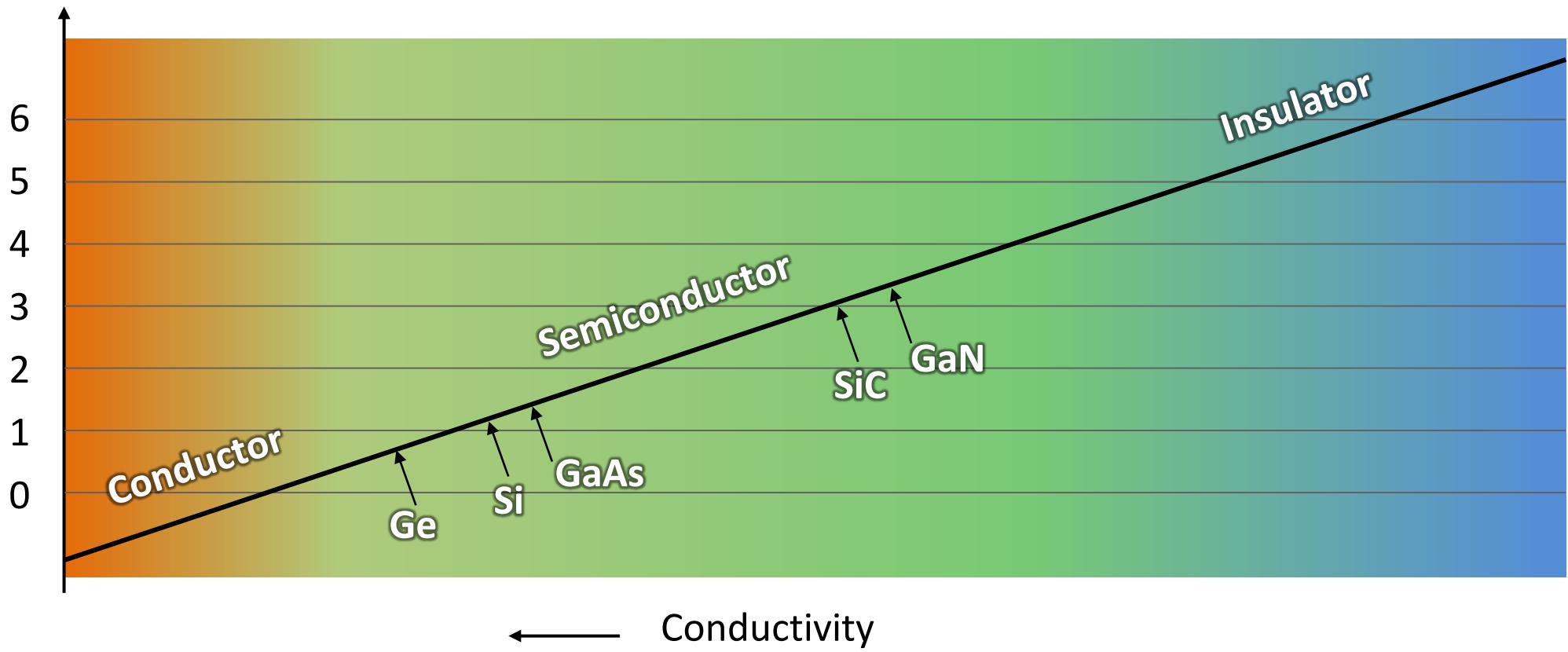
- 1.1 Electronics Technologies**
 - 1.1.1 Printed Circuit Board Technology
 - 1.1.2 Hybrid Technology
 - 1.1.3 Semiconductor Technology
- 1.2 Integrated Circuits**
 - 1.2.1 Importance and Characteristics
 - 1.2.2 Analog, Digital and Mixed-Signal Circuits
 - 1.2.3 Moore's Law and Design Gaps
- 1.3 Physical Design**
 - 1.3.1 Main Design Steps
 - 1.3.2 Physical Design of Integrated Circuits
 - 1.3.3 Physical Design of Printed Circuit Boards
- 1.4 Motivation and Structure of This Book**

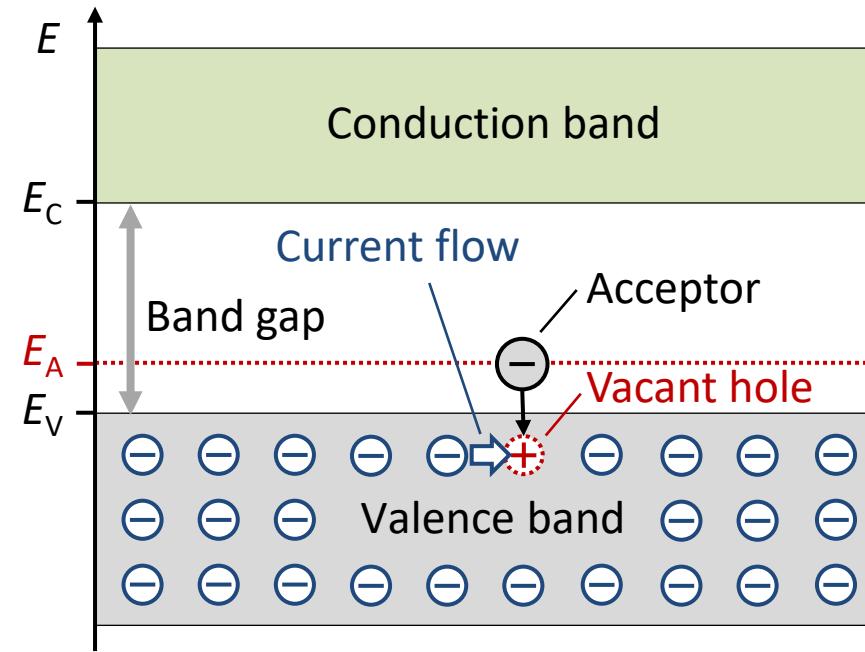
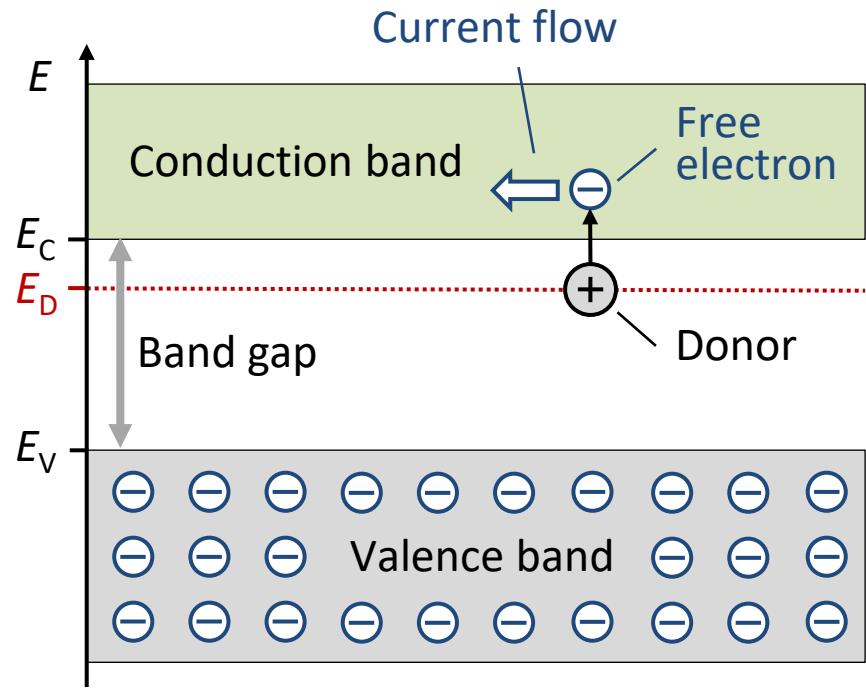


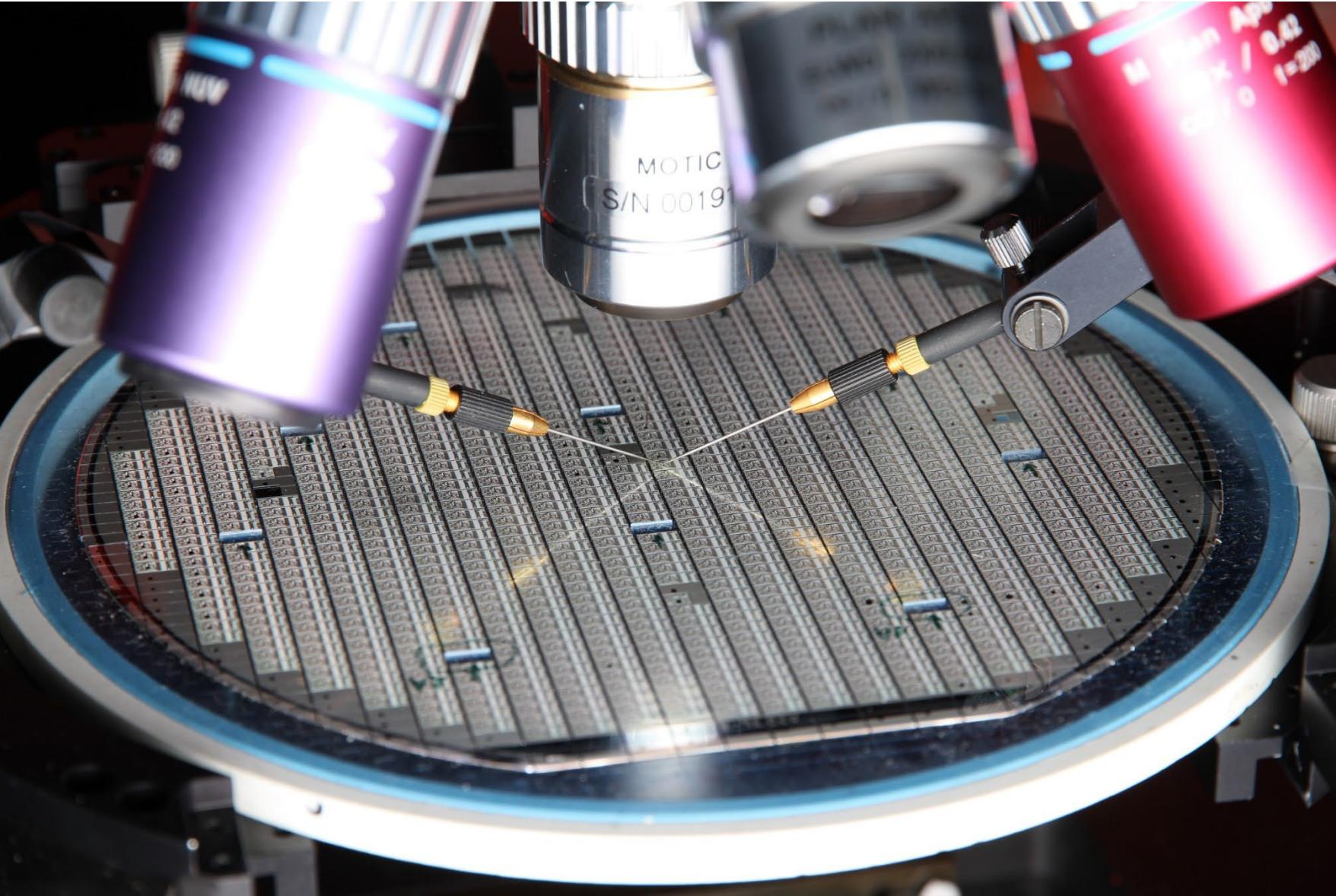




Band gap [eV]



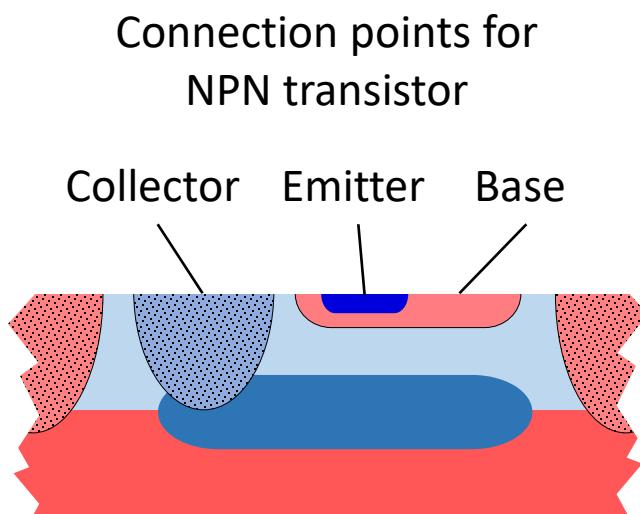




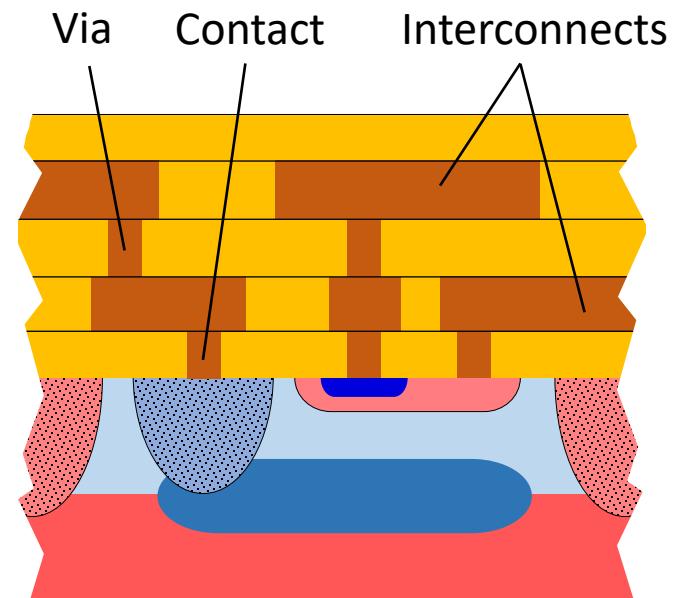
	Oxide (SiO_2)		Metal
n^-	n^+	n-doped bulk silicon	
p^-	p^+	p-doped bulk silicon	



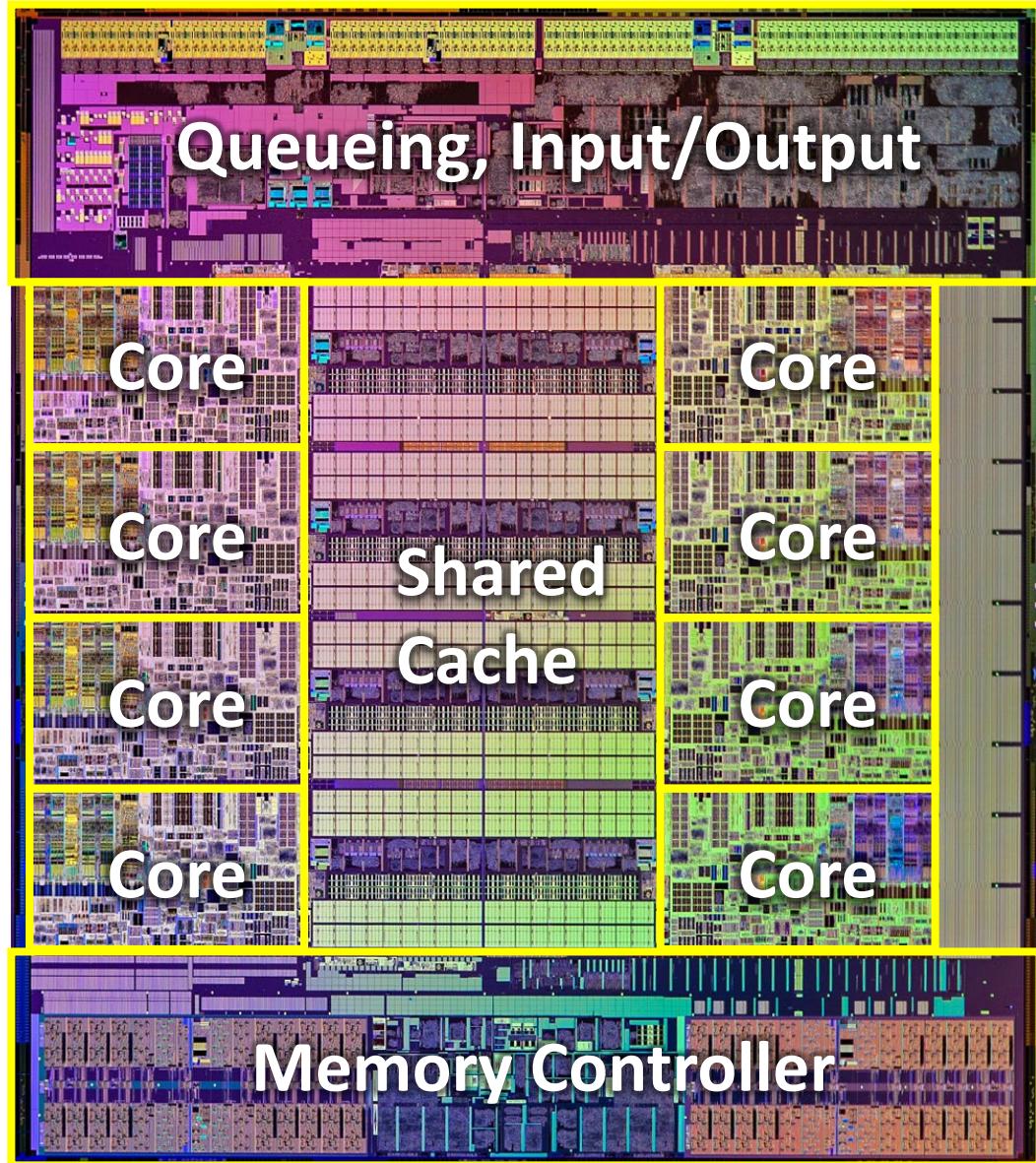
(a)

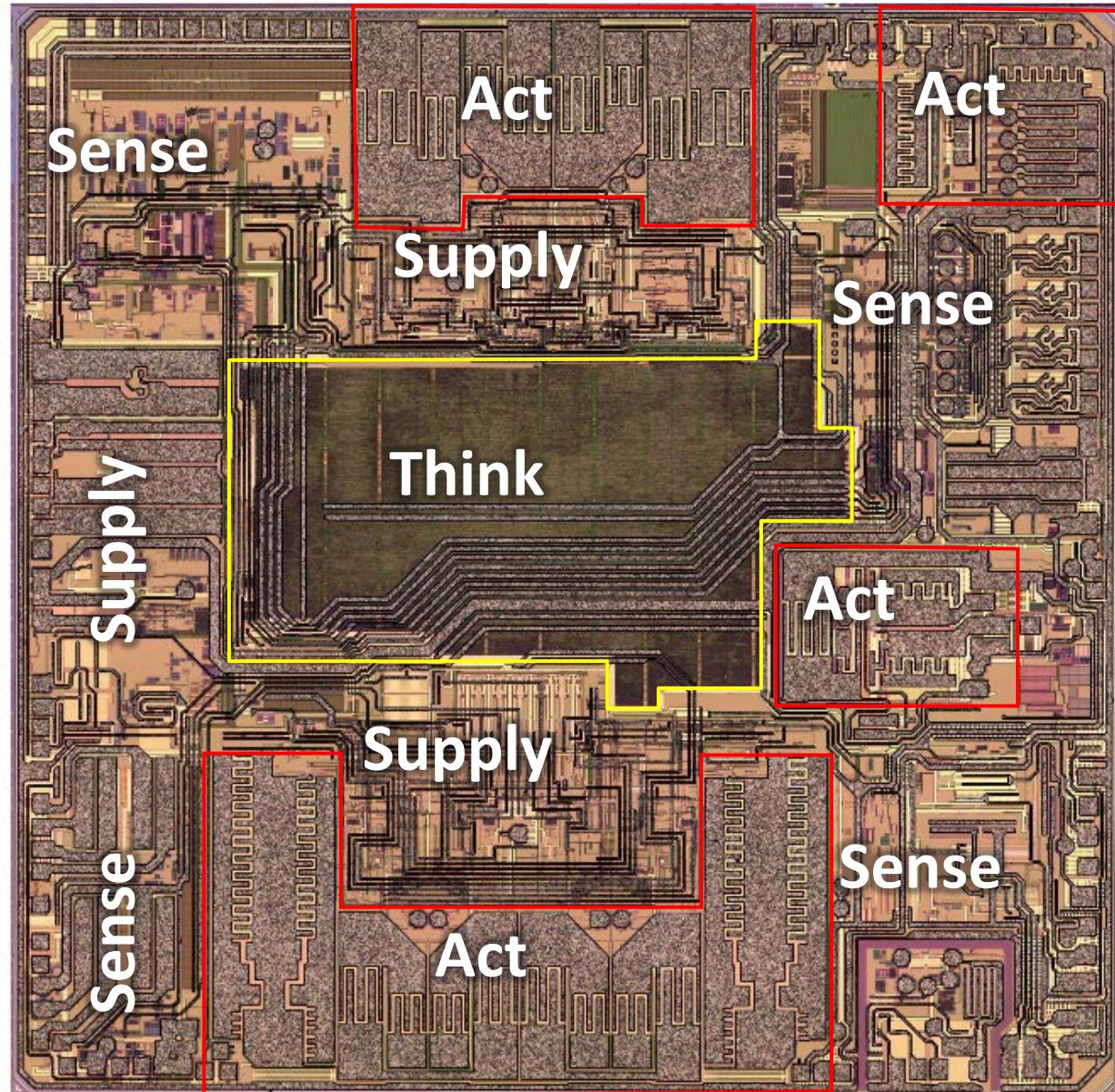


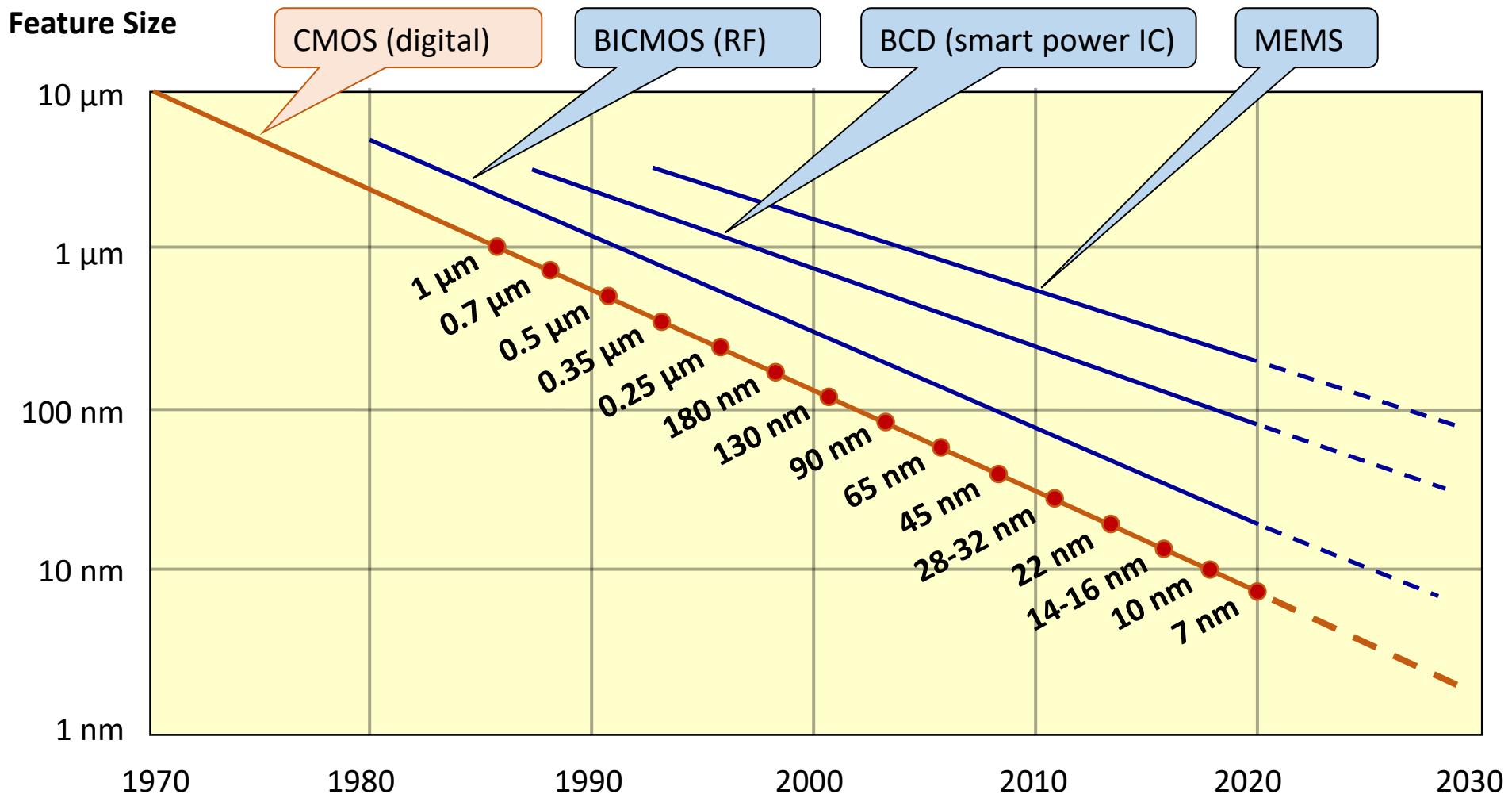
(b)



(c)







Devices / IC

Devices / PY

