

DC & RF Magnetron Sputter

Ching-Hua Lee* Chien-Neng Liao

Introduction

Thin film deposition

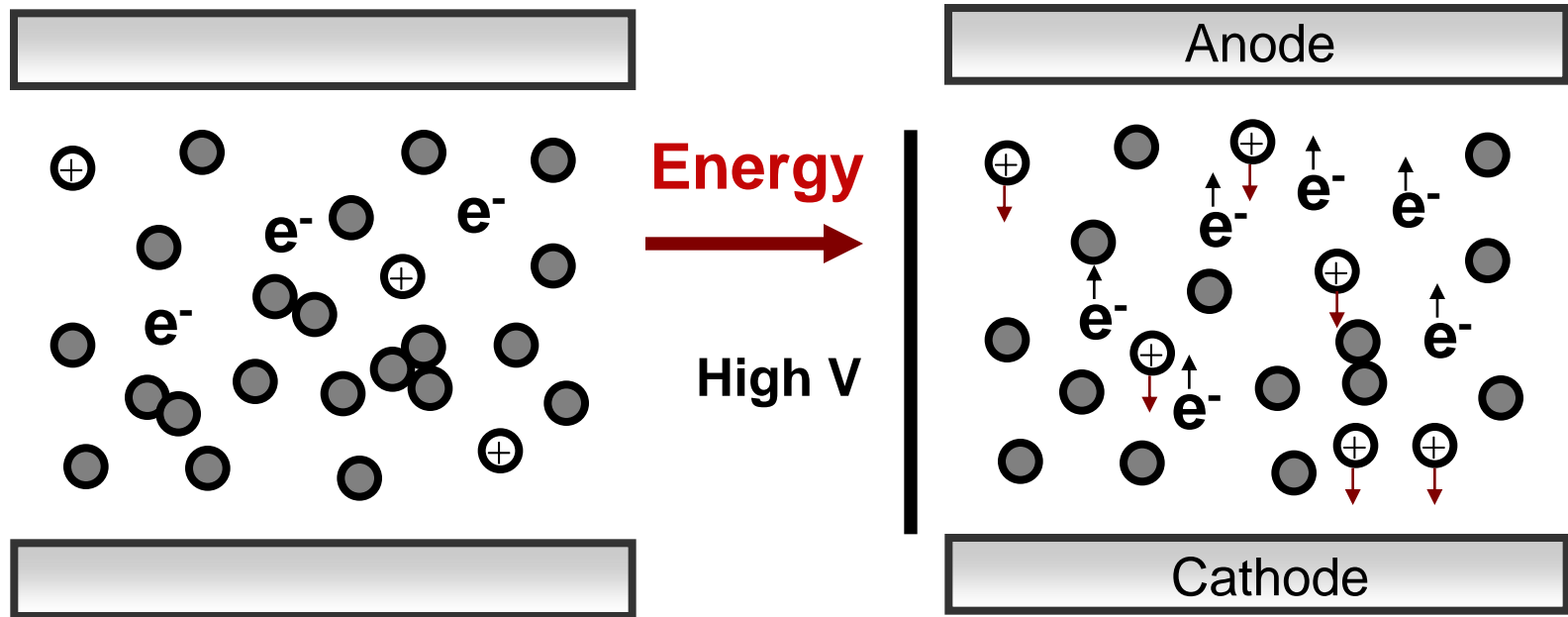
Physical vapor deposition (PVD)

- ☐ Sputter
- ☐ Evaporation
- ☐ E-gun

Chemical vapor deposition (CVD)

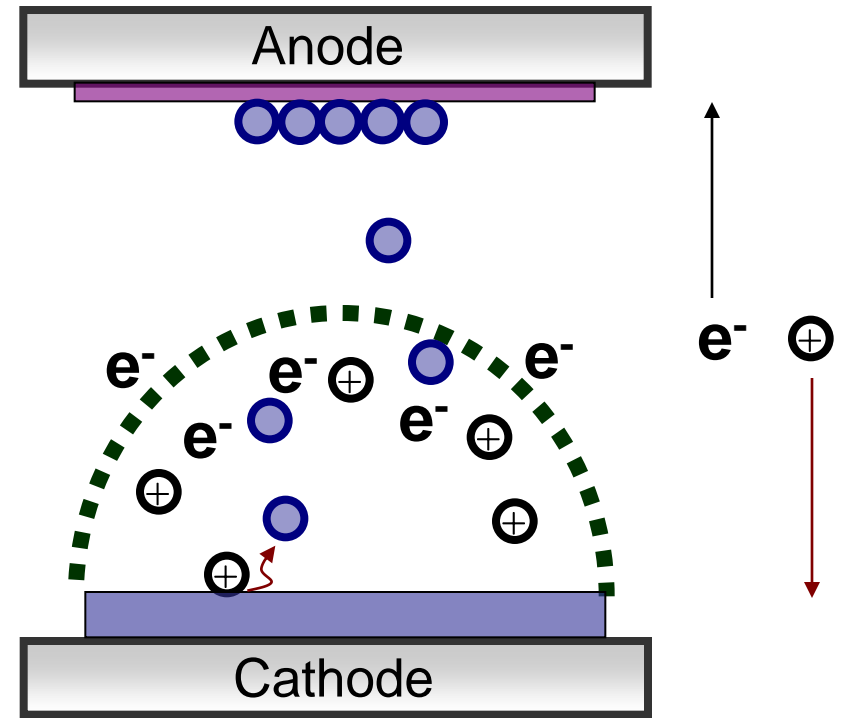
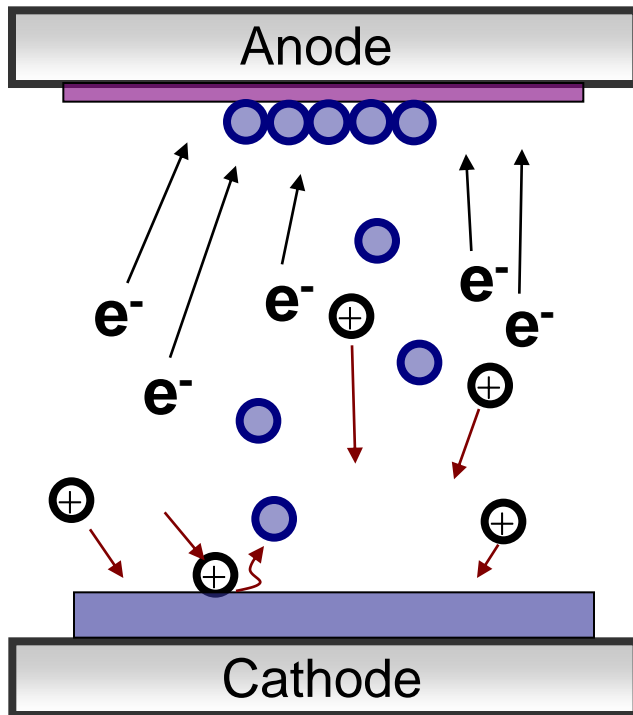
- ☐ MOCVD
- ☐ LPCVD
- ☐ APCVD

Plasma



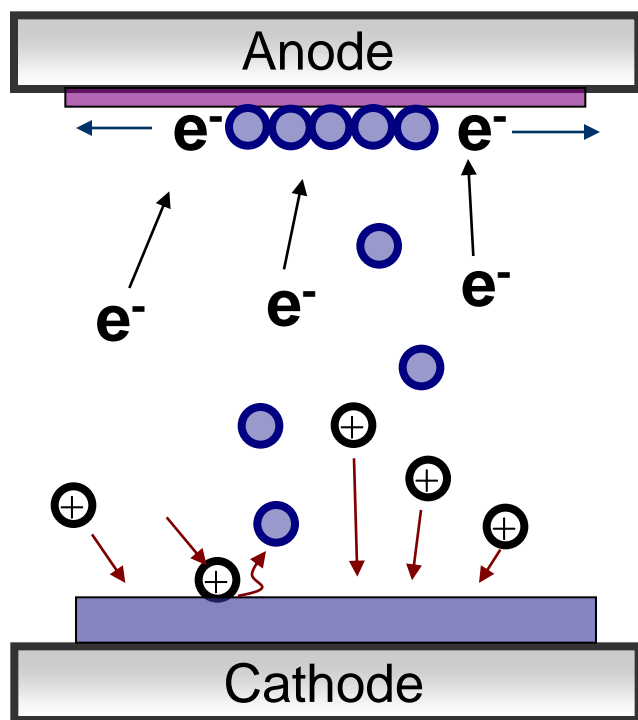
● molecule e^- electron \oplus ion

Magnetron sputter

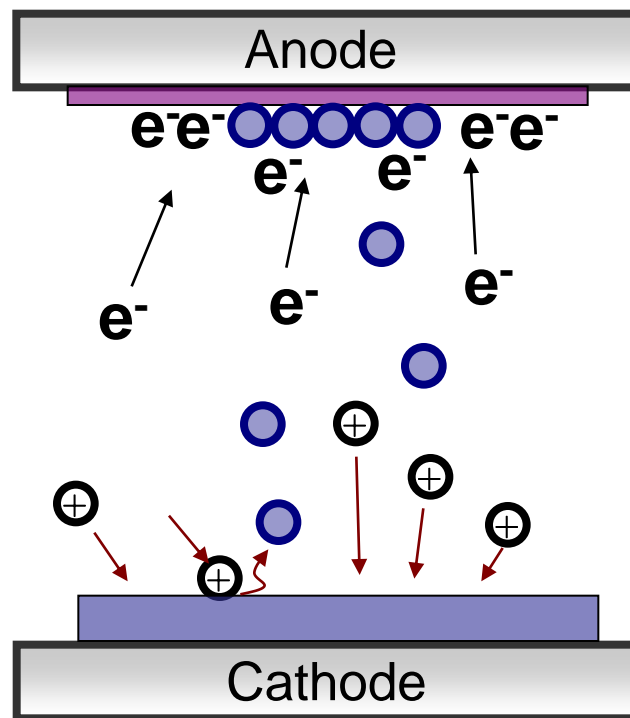


..... Magnetic field

DC sputter



Metal



Non metal

RF sputter

