## LECTURE-19

## **CMOS FABRICATION PROCESS**

P-type Substrate

Si-O2 Layer
Silicon Wafer

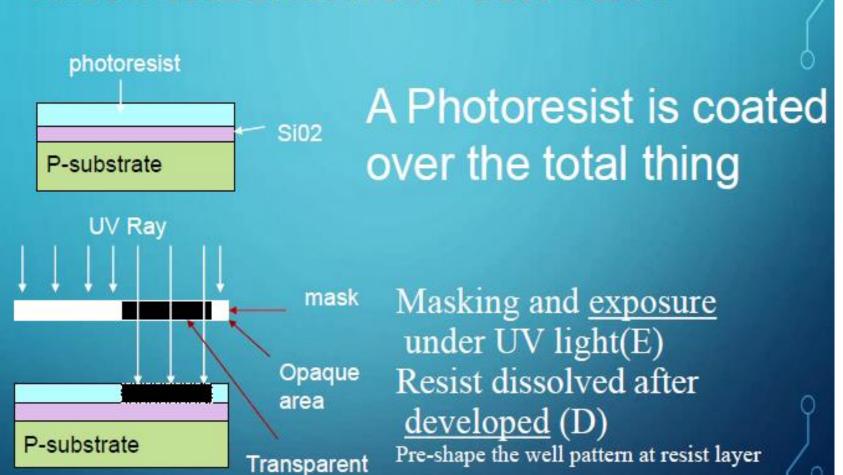
Start with clean p-type substrate (p-type wafer)

P-type Substrate

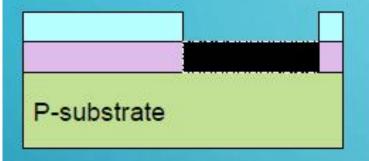
A Si-O2 Layer is created by oxidation on top of the wafer

## CMOS FABRICATION PROCESS

area



## PHOTOLITHOGRAPHY

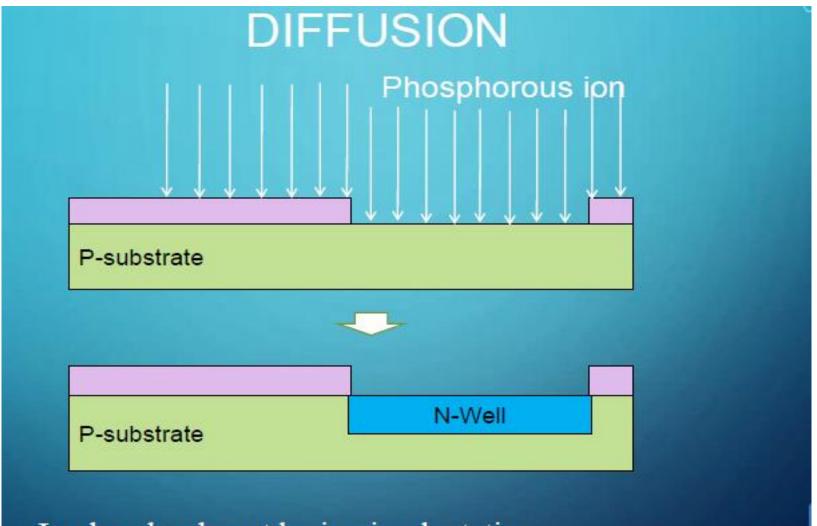


Removing the unwanted pattern by wet etching

P-substrate

Resist clean

Desired pattern formed



Ion bombardment by ion implantation SiO2 as mask, uncovered area will exposed to dopant ion