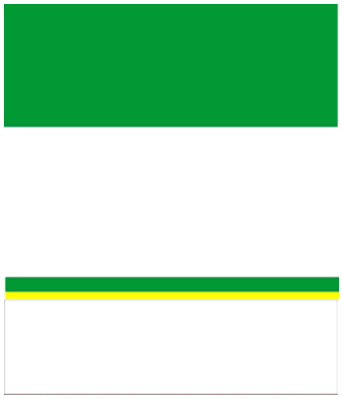
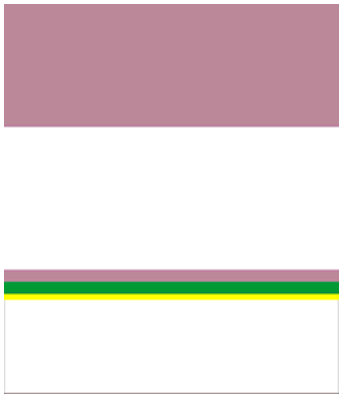
Herstellung eines CMOS-Inverters im Doppelwannen-Prozeß

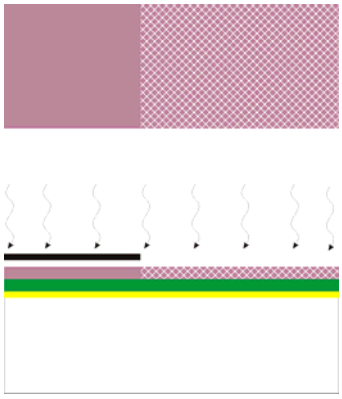
Siliziumnitrid abscheiden



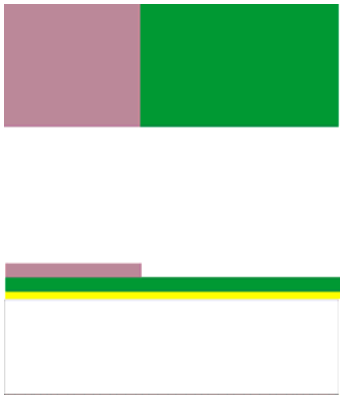
Photolack abscheiden



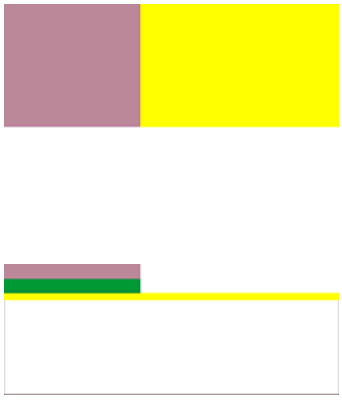
Photolack belichten



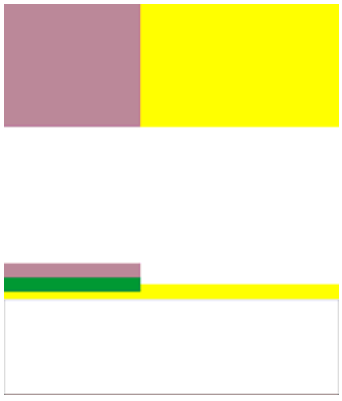
Photolack entwickeln



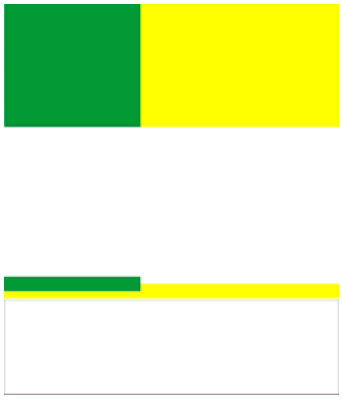
Siliziumnitrid ätzen



Dickes Oxid aufwachsen lassen

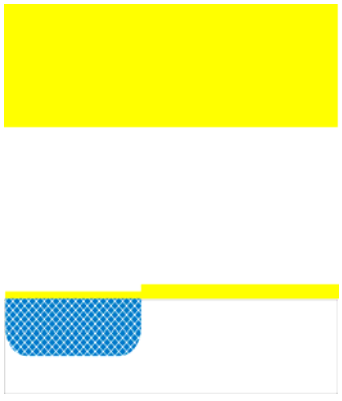


Photolack entfernen

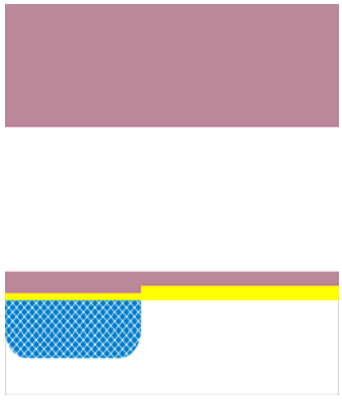


Siliziumnitrid ätzen

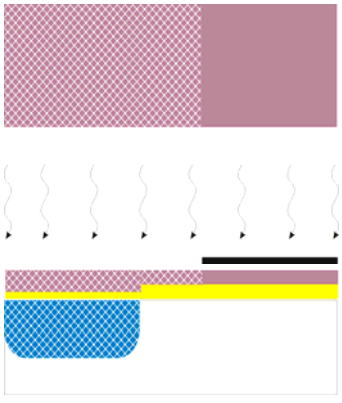
n Dotierung



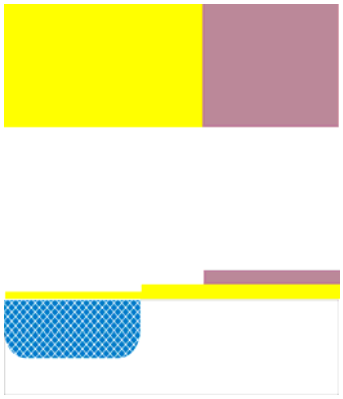
Photolack abscheiden



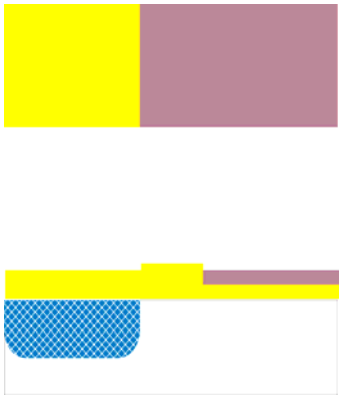
Photolack belichten



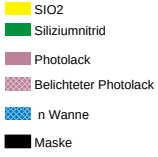
Photolack entwickeln



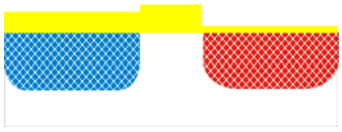
Dickes Oxid aufwachsen lassen

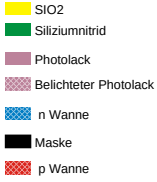


Photolack entfernen

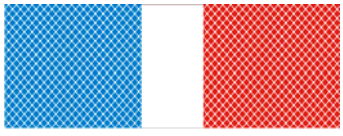


p Dotierung



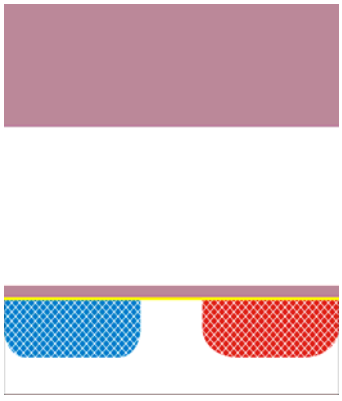


Oxid ätzen

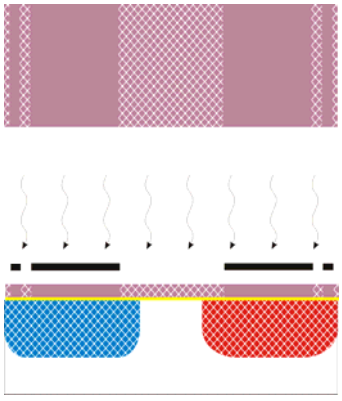


Sehr dünnes Gateoxid aufwachsen lassen

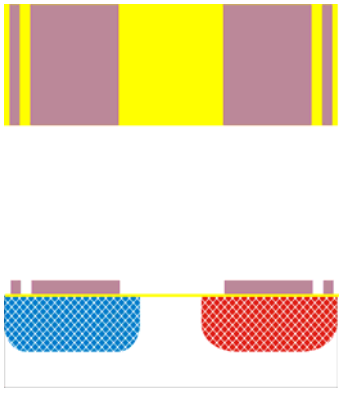
Photolack abscheiden



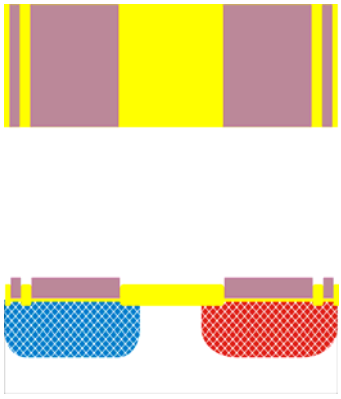
Photolack belichten



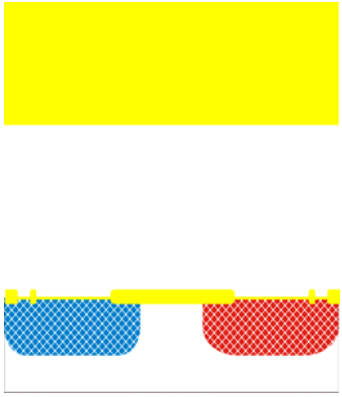
Photolack entwickeln



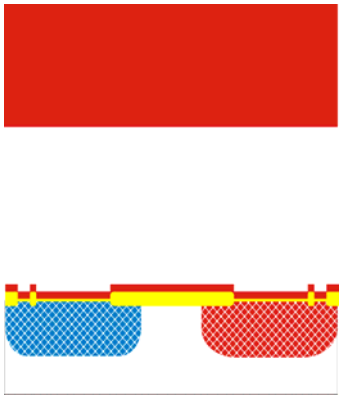
Dickes Oxid aufwachsen lassen



Photolack entfernen

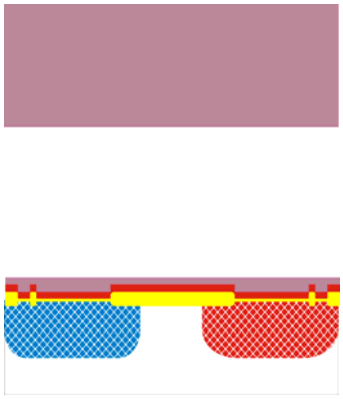


Polysilizium Schicht



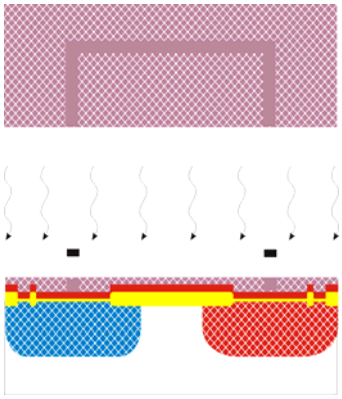
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium

Photolack abscheiden



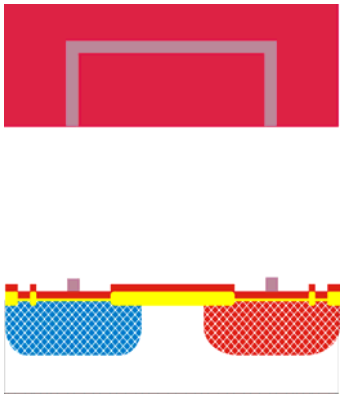
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium

Polysilizium Maske
Photolack belichten



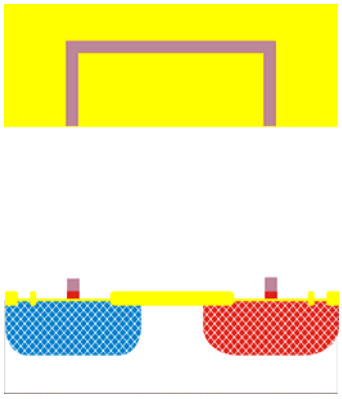
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium

Photolack entwickeln



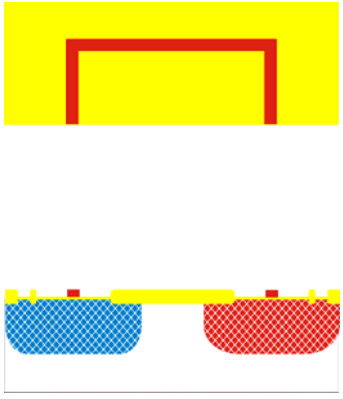
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium

Polysilizium entfernen



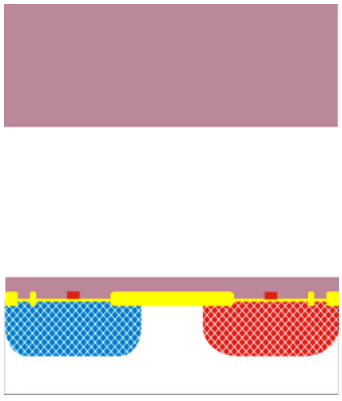
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium

Photolack entfernen



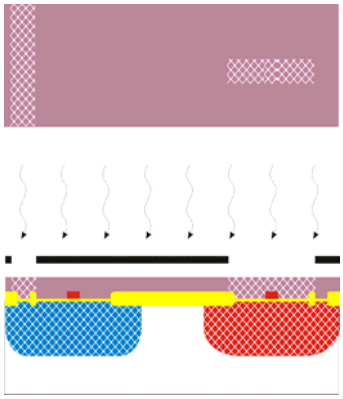
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium

Photolack abscheiden

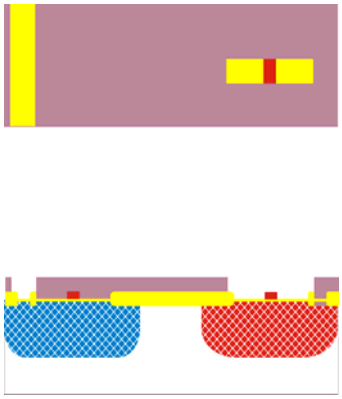


SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium

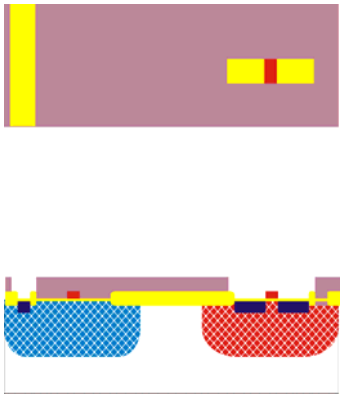
Photolack belichten



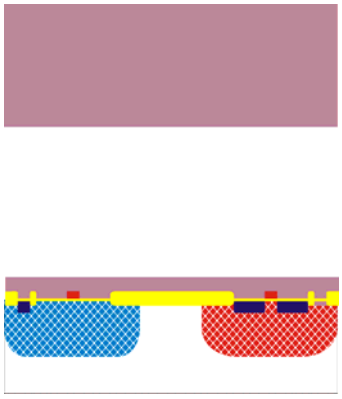
Photolack entwickeln



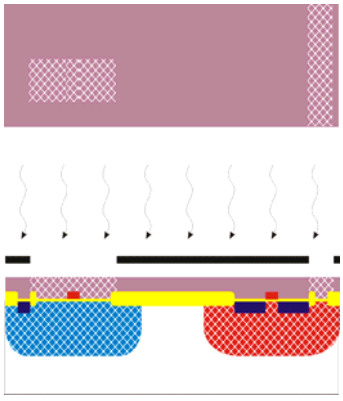
n+ Dotierung



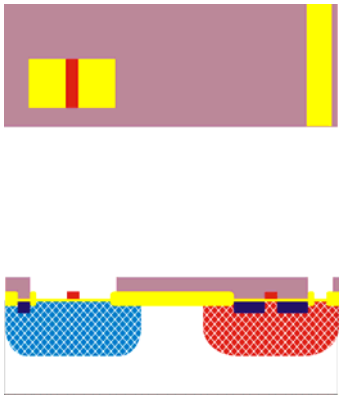
Photolack entfernen, neuen Photolack abscheiden



Photolack belichten

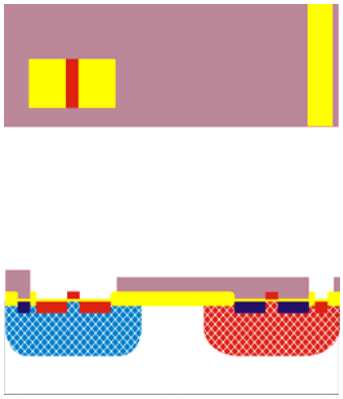


Photolack entwickeln

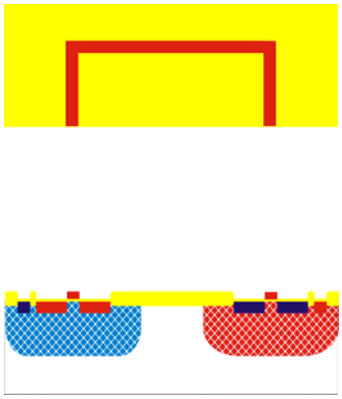


SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung

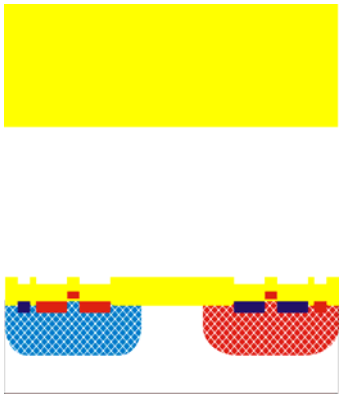
p+ Dotierung



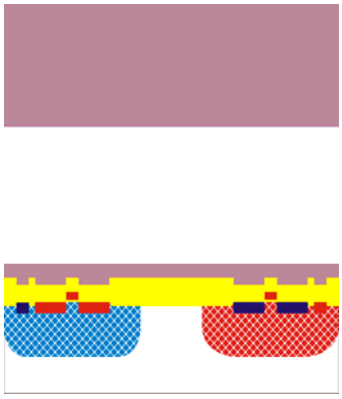
Photolack entfernen



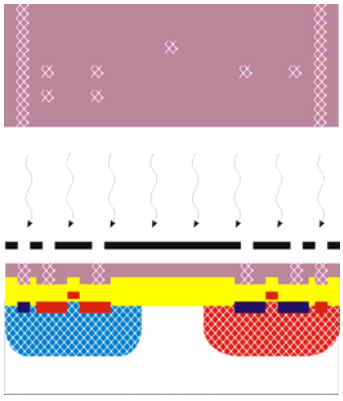
Dickes Oxid aufwachsen lassen



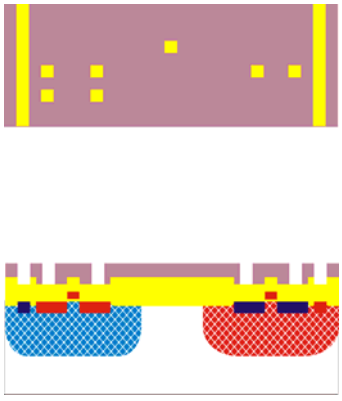
Photolack abscheiden



Photolack belichten mit Kontakt Maske

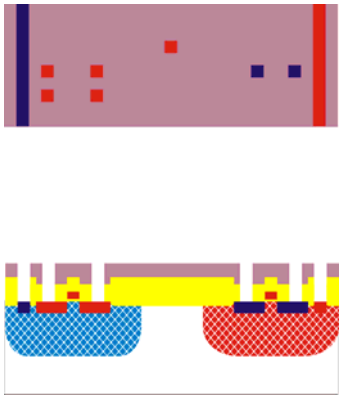


Photolack entwickeln



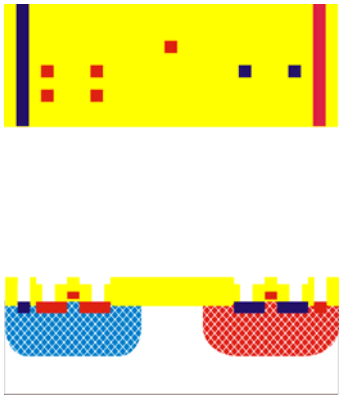
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung

Übertragung auf SIO2



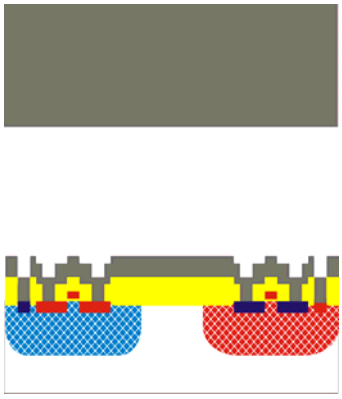
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung

Photolack entfernen



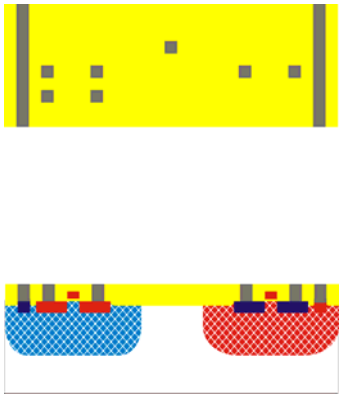
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung

Aluminium
Metall Schicht



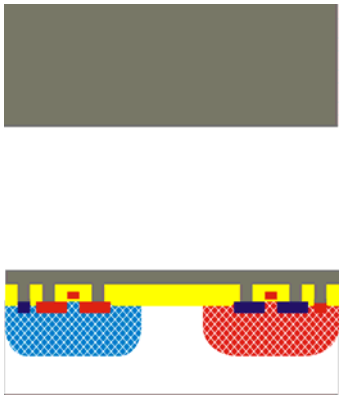
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Metall entfernen



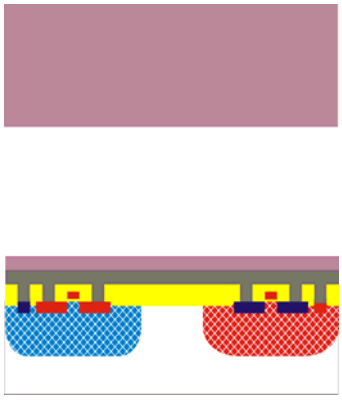
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Aluminium
Metall Schicht



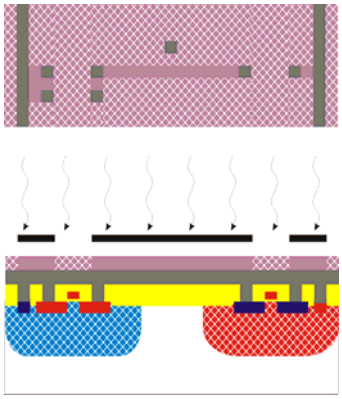
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Photolack abscheiden

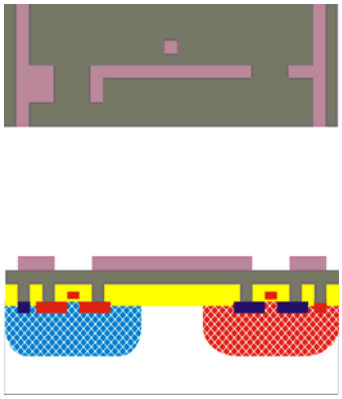


SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

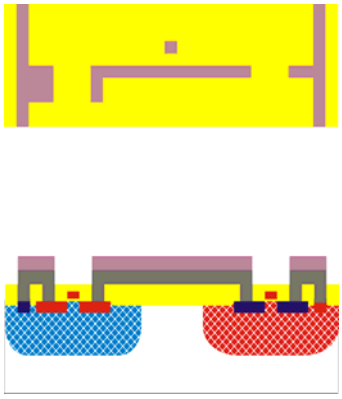
Photolack belichten



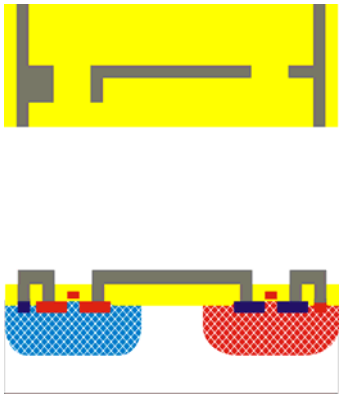
Photolack entwickeln



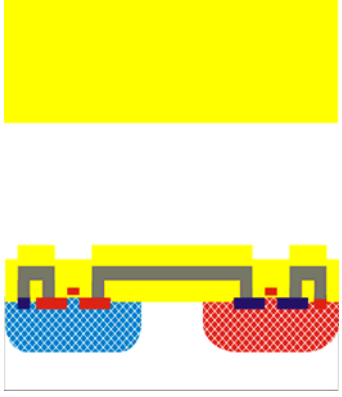
Metall entfernen



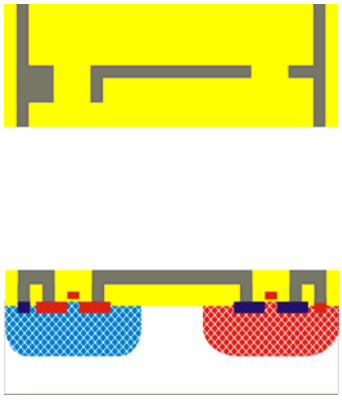
Photolack entfernen



Dickes Oxid aufwachsen lassen

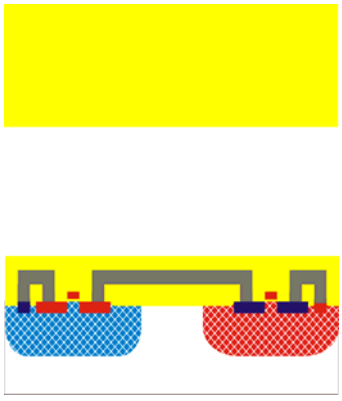


Oxid ätzen



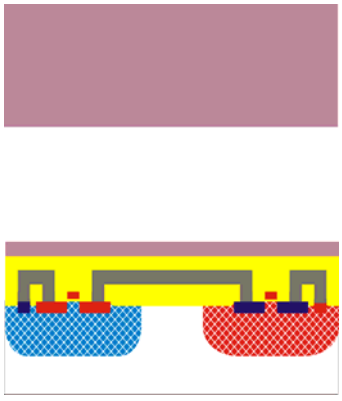
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Dickes Oxid aufwachsen lassen



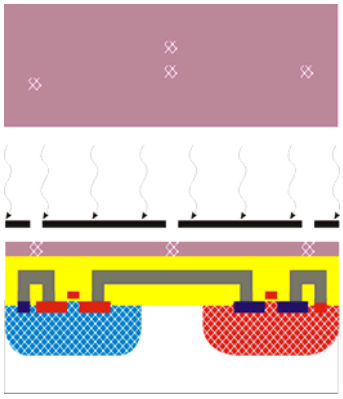
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Photolack abscheiden



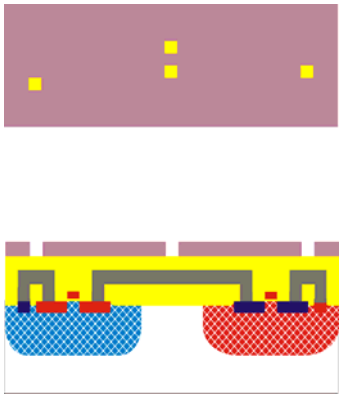
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Photolack belichten



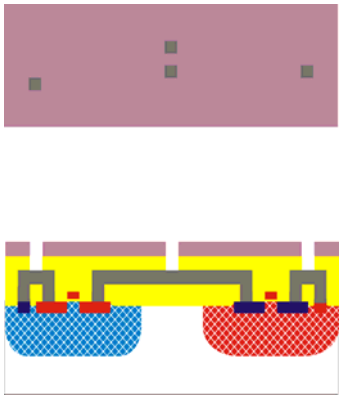
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Photolack entwickeln



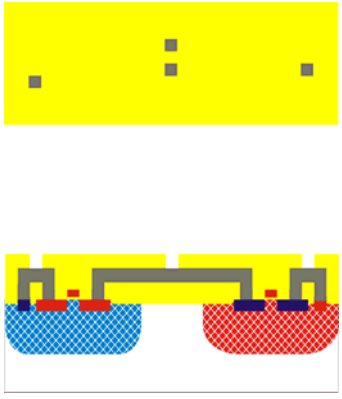
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Übertragung auf SIO2



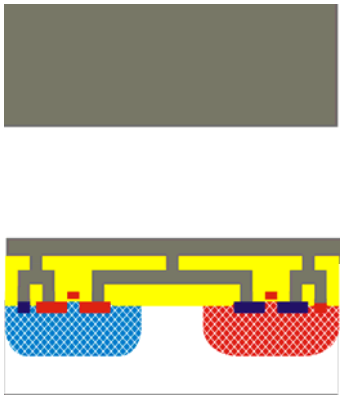
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Photolack entfernen



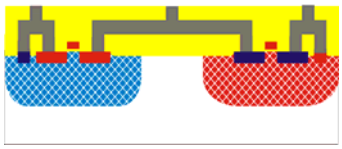
SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Metall Schicht



SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium

Metall entfernen



SIO2
Siliziumnitrid
Photolack
Belichteter Photolack
n Wanne
Maske
p Wanne
Polysilizium
n+ Dotierung
p+ Dotierung
Aluminium