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piranha solution is used to remove organic residues from substrates The piranha solution is made of a
3:1 mixture of concentrated sulfuric acid (H_2SO_4) with hydrogen ...

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The microstructure-view of microfabrication is a solution against outdated: alignment must be considered for both 100 μm fluidic channels and 100nm CMOS gates, etch undercutting target may be 10nm or 10 μm , but it is there; dopants will diffuse during high temperature anneals, but the junction depth target may be tens of nanometres or tens of micrometres.

Introduction to Microfabrication

10.1 Introduction In microelectronic fabrication, metals are used as electrically conducting materials for interconnects. The properties such as resistivity, lithography process compatibility, melting point, thermal expansion coefficient, diffusivity in an insulator, adhesion to the insulator, and interatomic

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distances (stress) of the metal must be considered when selecting an appropriate interconnect material.

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01 Introduction to Microelectronic Fabrication - 5 - 1.1.2 Compound Semiconductor There are many compound semiconductor materials. They are usually formed from III-V group, II-VI, IV-VI, I-III-VI 2 elements. III-V group semiconductors are GaAs, GaP, GaN, AlAs, InSb, InAs, InP and etc. In general, these

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