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The substrate enables easy handling of the micro device through the many fabrication steps. Often many individual devices are made together on one substrate and then singulated into separated devices toward the end of fabrication.

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The microstructure-view of microfabrication is a solution against outdating: alignment must be considered for both  $100\mu\text{m}$  fluidic channels and  $100\text{nm}$  CMOS gates, etch undercutting target may be  $10\text{nm}$  or  $10\mu\text{m}$ , but it is there; dopants will diffuse during high temperature anneals,



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but the junction depth target may be tens of nanometres or tens of micrometres.

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The batch fabrication of microstructures requires a low-cost, high throughput surface patterning technology

Microfabrication  
Process Complete  
processing sequence  
consist of: Layering:  
Oxidation Deposition

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Patterning: Lithography

Etching Doping: Ion

Implantation Diffusion  
Robotics arm is used to  
transfer wafers

(Source: IBM)

### **3. Overview of Microfabrication Techniques**

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Edition, by Richard C.  
Jaeger, is a concise  
survey of the most up-  
to-date techniques in

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the field. It is devoted exclusively to processing and is highlighted by careful explanations, clean, simple language, and numerous fully solved example problems.

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C. JAEGER CHAPTER 1

1. Answering machine

Alarm clock Automatic

door Automatic lights

ATM Automobile:

Engine controller

Temp. control ABS

Electronic dash

Automotive tune-up

equip. Bar code

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With that said, a typical microdevice is created first by depositing a film and then patterning the film with various micro features. Next, the company may etch away portions of the top layer of film. Thin film plays a key role in



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microfabrication.

Microfabricated products are typically created using multiple thin films.

### **What is Microfabrication? - Monroe**

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Microfabrication and nanofabrication are the basis of manufacturing for nearly all modern miniaturized systems that are ubiquitously used in our daily life. Examples include; computer chips and integrated sensors for monitoring our

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environment, cars,  
mobile phones,  
medical devices and  
more.

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Franssila, Sami ...**

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Edition Richard C.  
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## Introduction To Micro Fabrication

- The term microelectronics is normally associated with integrated circuits (IC).
- As the name suggest ue related to the study and manufac turing(fabrication) of very small electronic design & components. These device are made of semiconductor mate rials. Microelectronics include active(transistors & diodes) and passive(R,L,C)



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