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mechanical, optical
and fluidic devices in
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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

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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 μ m fluidic
channels and 100nm

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CMOS gates, etch undercutting target may be 10nm or 10 μ m, 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.

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

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Microfabrication
Process Complete
processing sequence
consist of: Layering:
Oxidation Deposition
Patterning: Lithography
Etching Doping : Ion
Implantation Diffusion
Robotics arm is used to
transfer wafers
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3. Overview of Microfabrication Techniques

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Microelectronic
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simple language, and
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MANUAL to
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C. JAEGER CHAPTER 1
1. Answering machine
Alarm clock Automatic
door Automatic lights
ATM Automobile:
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Automotive tune-up

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equip. Bar code
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With that said, a
typical microdevice is
created first by
depositing a film and
then patterning the

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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 microfabrication.

Microfabricated products are typically created using multiple thin films.

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nanofabrication are the
basis of manufacturing
for nearly all modern
miniaturized systems

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that are ubiquitously used in our daily life. Examples include; computer chips and integrated sensors for monitoring our environment, cars, mobile phones, medical devices and more.

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Franssila, Sami ...**

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- The term microelectronics is normally associated with integrated circuits (IC).
- As the name suggest ue related to the study and manufacturing(fabrication) of very small electronic design & components.

These device are made

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of semiconductor materials. Microelectronics include active (transistors & diodes) and passive (R, L, C) components.

Introduction To Microelectronics

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Microfabrication
Second Edition Sami
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Materials Science at
Aalto University and
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