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specializes in laser  
micromachining and  
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services with an

emphasis on precision,  
small parts (< .125"  
thickness) that require  
exceptional edge  
quality and close  
tolerances to 5um. As  
feature sizes and

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tolerances exceed  
traditional machining  
capabilities, laser micro-  
machining has become  
the standard with little  
to no secondary

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Optics. Editor(s): Eric

G. Johnson \*This item

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Additive lithography for  
refractive micro-optics

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~~The application of laser  
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~~technology in ...~~

In this paper the role of  
silicon as a micro-

optical bench substrate  
is described along with

implementations of  
micro-optical benches.

Silicon is an excellent  
choice as a base

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platform for SMOB  
technology because of  
its availability and  
excellent material  
properties and  
advanced processing  
technology.

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~~Mechanical Systems~~

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Wikipedia

such technology. Free-

space optics can

perform optical

imaging and generate

diffraction-limited

focused spots, and is

widely used in optical

display, data storage,

switching, and sensing

systems. The

micromachining, or

microelectromechanica

l systems (MEMS) [2],

technology has opened

up many new possibil-

ities for free-space

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Technology For  
optical systems.

Micro Optics And

Micromachining for  
Optical and

Optoelectronic  
Systems

Micro-Electro  
Mechanical Systems

(MEMS) was first used  
heavily in the sensor

industry, its success  
led to many tiny and  
well controlled devices.

In the optical domain,  
MEMS components are  
widely used for

telecommunication

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industry and optical  
sensor technology.

There are four main  
device application  
areas in the teleco

Process

~~Laser Micromachining~~

~~Micron Laser~~

~~Technology~~

The laser

micromachining

process is utilized in

many applications,

such as biomedical,

information

technology, chemical

sensors, micro-optical

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devices, and many

more. One of the

challenges to reaching

an effective laser

micromachining

process in terms of the

final part quality and

cost is the optimization

of the whole process.

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optical components

can be an effortless

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task using excimer

laser technology. A

new system under

development cuts

production costs and

offers faster fabrication

times over

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~~Mechanical Systems~~

~~(MEMS) Fabrication~~

~~Technology~~

It is impossible to do

the partial precise

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modification for optic fibers or make holes on them and therefore it is difficult to meet the needs of practical use.

The newly deep ultraviolet light micromachining technology is the effective technology for the micromachining of optic fiber.

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Semiconductor

Equipment and

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(Organization); Sandia

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OPTICAL DEVICES IN A

5-LEVEL POLYSI

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TECHNOLOGY James H.

Smith, M. Steven

Rodgers, Jeffry J.

Sniegowski, Samuel L.

Dale Hetherington,

Paul J. McWhorter, and

Mia<sup>1</sup> E. Warren

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manufacturing

technologies that are

being used to create m

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systems (MEMS) and

new microfluidic and

micro-optic devices.

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technologies have

revolutionized

manufacturing in

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microelectronics, semiconductor, And

photovoltaics, LED,

medical device

fabrication and many

other industries. • With

the ability to create

micro features with

high precision and

repeatability in

virtually any material,

lasers have found wide

use in micro processing

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Dec 02, 2019 Posted

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Production of precision  
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micro-machining

Revision 1v0,  
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Julian Hayes . ... The  
laser micromachining  
technology developed  
by PowerPhotonic has  
no symmetry  
restrictions, meaning  
whole new classes of

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optical surfaces can be  
created to fulfil...

Micro-Optic Precision  
Molding

Microfabrication

Optical applications of  
silicon micromachining  
technology

Implementing MOEMS

technology ranges  
from simple, passive  
components to  
complicated, active  
systems. Here, an  
overview of polysilicon  
surface

micromachining MEMS

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combined with optics is presented. Recent

advancements to the technology, which may

enhance its appeal for micro-optics

applications are emphasized.

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Suleski; Society of  
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Nano Optics V  
...

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Precision Mechanics

and Optics -

Mechanical

Engineering and

Precision

Manufacturing, optical

components made of

metals: The

combination of these

two sophisticated

technologies has

formed the basis of our

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activities for many decades. Having started with mirrors for high-power laser systems, we are now using our innovative machining technology to develop, manufacture and ...

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...

Micro-Opto-Electro-Mechanical Systems

(MOEMS) are not a

special class of Micro-

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Electro-Mechanical  
Systems (MEMS) but

rather the combination  
of MEMS merged with

Micro-optics; this

involves sensing or

manipulating optical

signals on a very small

size scale using

integrated mechanical,

optical, and electrical

systems. MOEMS

includes a wide variety

of devices including

optical switch, optical

...

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