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A Users Guide  
Author Harland  
G Tompkins  
Published On  
April 1999

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mean?

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meaning, definition

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What is OPTICAL

SPECTROMETER?

What does OPTICAL

SPECTROMETER

mean? OPTICAL

SPECTROMETER

meaning Double

refraction | quarter wave

plate | half wave plate

□□□□ (Ellipsometer)

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HFP to measure the

MPOD" Spectroscopic  
Ellipsometry: SENpro

Basic Operation

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## Spectroscopic

### Ellipsometry And

### Reflectometry A

Our emphasis will be on

using spectroscopic

ellipsometry in a

characterization lab to

develop optical

constants of unusual

material so that this

information can be used

in a reflectometry tool

in...

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(Scatterometry) for

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Measurement and in

situ, Real-Time Process

Monitoring. Fred L.

Terry, Jr. Dept of EECS

/ University of Michigan

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Ellipsometry (SE) SCI's

expanding technology

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Ellipsometry And Reflectometry A User's Guide  
Author: Harland G. Tompkins  
Published On: April 1999

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solve our customers' most pressing  
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ellipsometry and

reflectometry a users

guide author harland g

tompkins published on

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An accurate and  
affordable solution for  
routine measurement of  
thin film thickness and  
refractive index.

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intuitive, high-  
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modeling software to  
make daily  
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Reflectometry I 0 I r I t  
Based on Intensity  
Based on amplitude and  
phase shift of E field;  
polarization! E in E out  
I E2 Transmission = I t /

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Io Reflection =  $I_r / I_o$   
s p tan e r r

And Reflectometry A  
Introduction to

Spectroscopic

Ellipsometry

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reflectometry can only

solve for layer

thicknesses for one layer

or up to a stack of three

layers. If the optical

properties of a material

need to be measured,

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Ellipsometry

ellipsometry is the

measurement

technology that is

needed. Applications

Author Harland

Spectroscopic

reflectometry - LNF

Wiki

Ellipsometry

Perspective ¶

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Ellipsometry is an

optical technique used

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Ellipsometry  
for analysis and metrology □ A light beam is reflected off of the sample of interest □ The light beam is then analyzed to see what the sample did to the light beam □ We then draw conclusions about the sample □ thickness □ optical constants □ microstructure

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Ellipsometry - APS

Physics

Spectroscopic

ellipsometry measures  $\Psi$

and  $\Delta$ , both of which

describe the output

elliptical polarization

state after linearly

polarized light is

reflected obliquely off

of a thin film sample.

The parameters  $\Psi$  and  $\Delta$

are related to the

complex Fresnel

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reflection coefficients

according to:  $\rho = \tan \theta$

$e_i \rho = r_p / r_s$ .

## Spectroscopic

Ellipsometry: Basic  
Concepts - HORIBA

Ellipsometry is an optical technique for investigating the dielectric properties of thin films. Ellipsometry measures the change of polarization upon



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transmission and compares it to a model.

It can be used to characterize

composition, roughness, thickness, crystalline nature, doping

concentration, electrical conductivity and other material properties. It is

very sensitive to the change in the optical response of incident

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radiation that interacts with the material being investigated

## Reflectometry A Ellipsometry -

Wikipedia

While single wave ellipsometry has been around for years,

spectroscopic ellipsometry is fast

becoming the method of choice for measuring the thickness and optical

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properties of thin films.

This book provides the first practical introduction to

spectroscopic

ellipsometry and the related techniques of reflectometry. A guide

for practitioners and researchers in a variety of disciplines, it ...

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Ellipsometry and

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Reflectometry: A User's

... SENDURO | Automated Spectroscopic

Ellipsometry . Auto-alignment: The fully automated spectroscopic ellipsometry featured by

the ellipsometer

SENDURO® relieves the user from manually aligning the sample by height and tilt required for highly precise and

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repeatable spectroscopic  
ellipsometry. The  
patented automatic  
alignment sensor  
strongly reduces  
operation errors, works  
for transparent and  
reflective samples, and  
makes automatic maps  
possible even on bent  
wafers.

Thin Film Metrology  
(Ellipsometry,

*Page 29/36*

# Download Free Spectroscopic Ellipsometry

Spectroscopic ellipsometry (SE) is a very powerful tool for characterization of thin film systems. Under appropriate circumstances, SE determines film thicknesses more accurately than any other known technique. In addition, SE measurements can

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Ellipsometry  
provide information concerning the optical functions, surface roughness, and interface layers of films.

Author Harland

Spectroscopic  
Ellipsometry - an

overview | Published On

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Both Spectroscopic  
Ellipsometry (SE) and  
Spectral Reflectance  
(SR) analyze reflected

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light to determine the thickness and refractive index of dielectrics, semiconductors, and thin metal films.

Author Harland

Comparison of Ellipsometry and

Spectral... - Filmetrics

Ellipsometry and Reflectometry

Ellipsometry and reflectometry techniques utilize changes in



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reflected light to gain knowledge about adsorption and desorption events. In ellipsometry, the change in polarization state when elliptically polarized light is reflected from a surface is determined [71 ].

Reflectometry - an overview |

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Ellipsometry

Reflectometry and

Ellipsometry both use  
the same analysis

engine. Consequently,

the same optical model  
can be used for the same  
material even if being

measured by two

different metrologies.

Organic layer thickness

map Measured and

fitted reflectance curve

on an organic layer

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FilmTek<sup>®</sup> spectroscopic  
ellipsometers are based

on a rotating

compensator design and  
combine spectroscopic

ellipsometry with multi  
angle reflectometry to

provide peak

performance from very-  
thin to very-thick films.

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determine film  
thickness, refractive  
index, and extinction  
coefficient.

## Users Guide

Author Harland

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April 1999