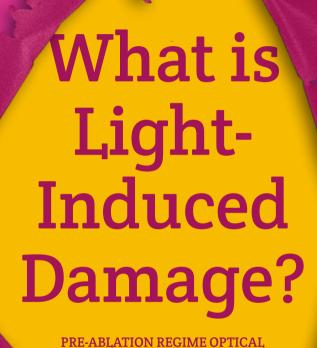
Addendum



IN NANOMETER THICK FILMS AND GRATING STRUCTURES

AND MORPHOLOGICAL CHANGES

Ester Abram



REVISED FIGURES AND EDITS

|E| |**H**| 980 nm 50% 980 nm 50% Flat Flat 200 nm 200 nm Parallel Perpendicular du dt **|S**| 980 nm 980 nm Flat 50% Flat 50% 200 nm 200 nm Parallel Perpendicular

Figure 1.6 has been adjusted to include appropriate color scaling and colorbars.

Figure 1.6: |E|, |H|, |S| and $\frac{du}{dt}$ profiles in silicon, obtained by near-field RCWA calculations. These calculations are performed on flat silicon (left) and a silicon grating with 980 nm pitch and 50% duty cycle (right), illuminated by a 400 nm pump pulse at normal incidence at parallel or perpendicular polarization with respect to the direction of the grating lines. A SiO₂ native oxide thickness of 2.1 nm is included.

The vertical lines that were missing in figure 3.12a have now been restored.

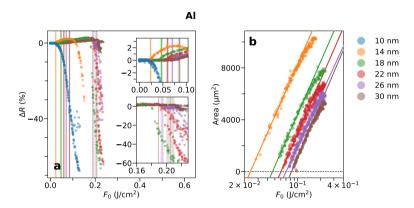


Figure 3.12: (a) ΔR versus pump peak-fluence F_0 for 10, 14, 18, 22, 26 and 30 nm aluminum on borosilicate glass. In (a), the vertical dashed lines mark the ablation fluence $F_{\rm abl}$ extracted from a Liu-plot of the crater area versus fluence (not shown here). The solid lines represent the spallation fluence $F_{\rm spal}$ obtained from (b), which shows the Liu-plot of the spallation area as a function of fluence. The values of $F_{\rm spal}$ are obtained from the linear regression lines shown in (b). Note that the 10 nm Al layer is omitted in (b) because this layer displayed no clear spallation and ablation edges.

Table 1 lists the typographic changes that must be made following the printed version.

Table 1: Overview of typographic changes

Old	New	What	Where
or wavelength	, or wave- length,	Inserted ;;	Page 1
		Removed double 'Deposition' block	Figure 2, page 2
each layer[21].	each layer [21].	Added space	Page 2
In chapter 2	In chapter 2	Added indent	Page 7
70 μm and 15 μm	≈70 µm and ≈15 µm	Added "≈"	Page 47
Just beyond the	just beyond the	Removed capital	Caption of figure 3.8, page 56
CompleteEase	CompleteEASE	Adjusted capitals	Page 61 and the caption of figure 3.14, page 63
pump energy[121]	pump energy [121]	Added space	Page 64
$(F > F_{\text{FA}})$	$(F_0 > F_{\rm FA})$		caption of fig- ure 4.3, page 82
$\frac{1}{Abs} \cdot Abs_{\text{flat}}$ to coalesce with	done to let $\frac{1}{Abs} \cdot Abs_{\text{flat}}$ coalesce with		Page 110
https://git. amolf.nl/ Light-Matter_ Interaction/ contour.git	[152]	Changed hyper- link to reference	Page 120
with $\ln(F_{\text{th}})$	with $A = \ln(F_{th})$		Page 122
the blue curve	the curve at the blue data points		Page 123
blue line	left line		Caption of figure 6.3, page 123
Delamination (or- ange)	Delamination	In caption of figure 6.6.3, page 126	