

입사각 변화에 따른 투과/반사율 산출

Design File 작성 (Sample)

Essential Macleod

File Edit Parameters Performance | Lock/Link Tools Options Window

AR 2-1 4-Layer

Design | Context | Notes

Incident Angle (deg)	0.00
Reference Wavelength (nm)	510.00

	Layer	Material	Refractive Index	Extinction Coefficient	Optical Thickness (FWOT)	Physical Thickness (nm)
▶	Medium	Air	1.00000	0.00000		
	1	SiO2	1.46180	0.00000	0.30293670	105.69
	2	HfO2	1.93940	0.00000	0.15327638	40.31
	3	SiO2	1.46180	0.00000	0.10653412	37.17
	4	HfO2	1.93940	0.00000	0.55857559	146.89
	Substrate	Glass	1.52083	0.00000		
					1.12132279	330.05

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AR 2-1 4-Layer

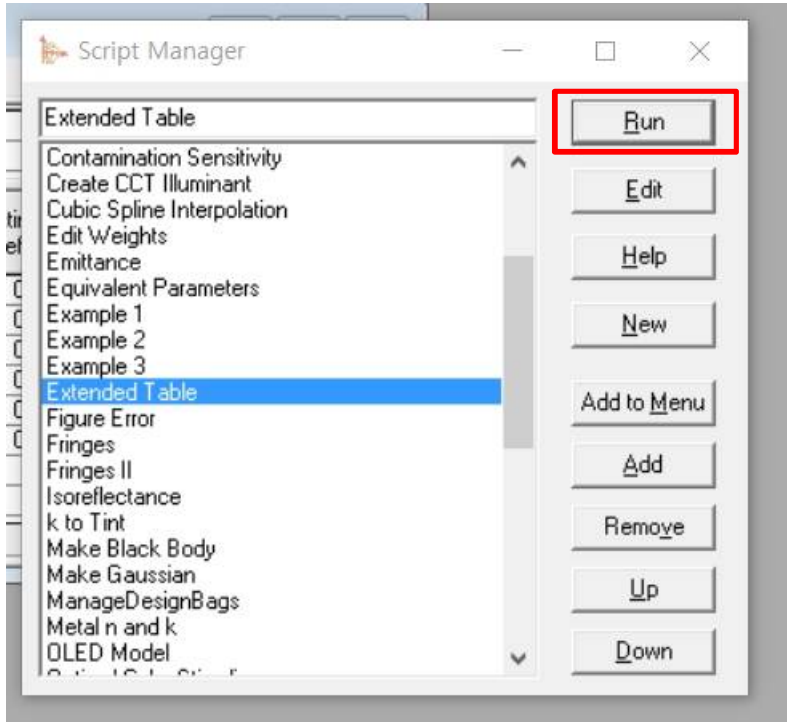
Design | Context | Notes

Incident Angle (deg)	0.00
Reference Wavelength (nm)	510.00

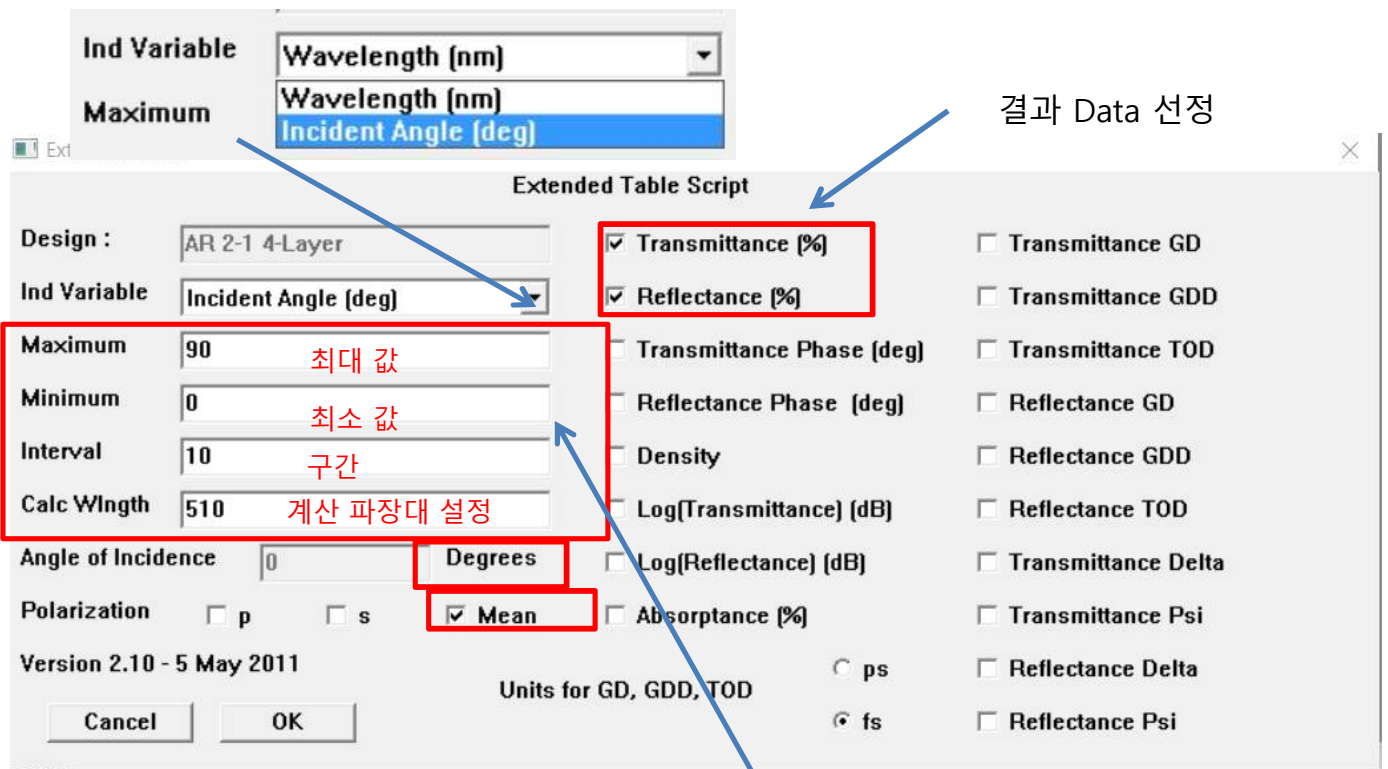
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	Substrate	Glass	1.52083	0.0000

- Materials
 - Browse Materials Library...
 - Browse Online Materials Library...
- Refine
- Compact Design
- Analysis
- Design Tools
- Index Profile...
- Sensitivity
- Load ZEMAX Coating File...
- Substrate n,k & T...
- DWDM Assistant...
- Scripts...

Extended Table 선택 후 "Run "



변수 대상 선택



Data 선정(입력) 후 "OK" 클릭

결과 Data

Script	Extended Table	
Design	AR 2-1 4-Layer	
Ref Wavelength (nm)	510.00	
Wavelength (nm)	510.00	
Incident Angle (deg)	Mean-Transmittance (%)	Mean-Reflectance (%)
0.00000	99.59507	0.40493
10.00000	99.65805	0.34195
20.00000	99.80793	0.19207
30.00000	99.88268	0.11732
40.00000	99.50406	0.49594
50.00000	97.95951	2.04049
60.00000	93.87020	6.12980
70.00000	84.19816	15.80184
80.00000	61.06192	38.93808
90.00000	0.00000	100.00000

Tr, Re data외 아래 빨간 box에 있는 다양한 항목의 결과를 선택하여 볼 수가 있습니다.

Extended Table Script

Design : AR 2-1 4-Layer

Ind Variable : Incident Angle [deg]

Maximum : 90

Minimum : 0

Interval : 10

Calc Wlngth : 510

Angle of Incidence : 0 Degrees

Polarization : p s Mean

Version 2.10 - 5 May 2011

Units for GD, GDD, TOD : ps fs

- Transmittance (%)
- Reflectance (%)
- Transmittance Phase (deg)
- Reflectance Phase (deg)
- Density
- Log(Transmittance) [dB]
- Log(Reflectance) [dB]
- Absorptance (%)
- Transmittance GD
- Transmittance GDD
- Transmittance TOD
- Reflectance GD
- Reflectance GDD
- Reflectance TOD
- Transmittance Delta
- Transmittance Psi
- Reflectance Delta
- Reflectance Psi

파장 변화에 따른 투과/반사율 산출

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- Refine ▶
- Compact Design
- Analysis ▶
- Design Tools ▶
- Index Profile...
- Sensitivity ▶
- Load ZEMAX Coating File...
- Substrate n,k & T...
- DWDM Assistant...
- Scripts...

Ind Variable: Wavelength (nm)
 Maximum: Wavelength (nm)
 Incident Angle (deg)

Extended Table Script

Design: AR 2-1 4-Layer

Ind Variable: Wavelength (nm) ▼

Maximum: 700 최대 값

Minimum: 400 최소 값

Interval: 20 구간

Calc Wlngth: 510

Angle of Incidence: 0 ↖ Degrees

Polarization: p s Mean

Version 2.10 - 5 May 2011

Units for GD, GDD, TOD: ps fs

Transmittance (%), Reflectance (%), Transmittance GD, Transmittance GDD, Transmittance TOD, Reflectance GD, Reflectance GDD, Reflectance TOD, Transmittance Delta, Transmittance Psi, Reflectance Delta, Reflectance Psi

Cancel OK

Table

Script: Extended Table
 Design: AR 2-1 4-Layer
 Ref Wavelength (nm): 510.00
 Incidence (deg): 0.00000

Wavelength (nm)	Transmittance (%)	Reflectance (%)
400.00	95.13979	4.86021
420.00	99.57693	0.42307
440.00	99.81525	0.18475
460.00	99.08964	0.91036
480.00	98.91013	1.08987
500.00	99.32004	0.67996
520.00	99.82437	0.17563
540.00	99.94692	0.05308
560.00	99.46611	0.53389
580.00	98.42655	1.57345
600.00	97.03388	2.96612
620.00	95.53203	4.46797
640.00	94.12743	5.87257
660.00	92.95790	7.04210
680.00	92.09638	7.90362
700.00	91.56256	8.43744

입사각 설정

결과 Data