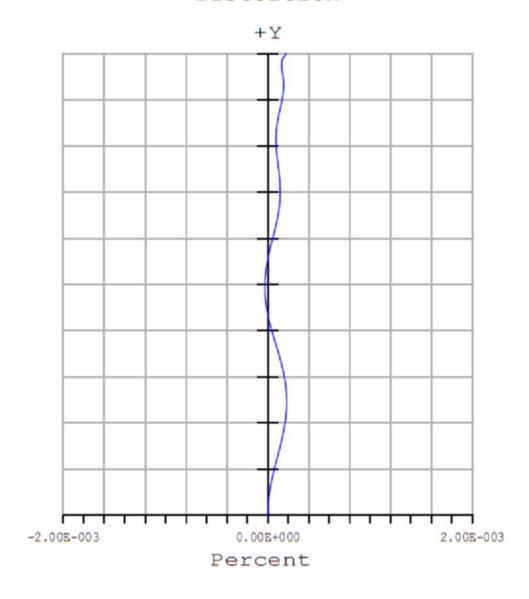


RMS wavefront error (157 nm waves) for example 2 (Table2, Fig. 5) in Terasawa

Distortion

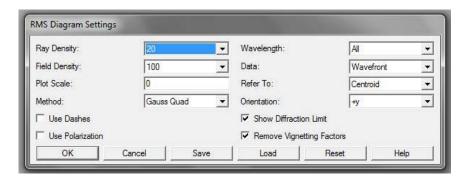


Distortion for Example 2, Table 2, in Terasawa. The max distortion scale is 0.002 %



Analysis of Example 2 in Table 2 and Figure 5 in Terasawa

- 1) Analysis performed with Zemax 13 Release 2 SP1 Professional.
- 2) The lens prescription as input in Zemax is given below.
- 3) Ray aiming to the aperture stop was used.
- 4) RMS wavefront error was generated with the settings:



5) Distortion plot was generated with the settings:





SURFACE DATA SUMMARY:

Surf Comn	Type	Rac	dius	Thic	kness	Gla	SS	Diamo	eter	Con	ic	
	STANDAR	D	Infini	ts:	75 685				130	0		
	VENASPH			-								0
	TANDARD		-1115.6						6.5714		0	U
	VENASPH				18 1.5						U	0
	TANDARD				22.18)	U
	VENASPH				-22.18						_	0 M1
	TANDARD											0
	VENASPH				-16 1 -313.164				.9657	9907	0	U
										502	-	0.142
	TANDARD				365.344							0 M2
	TANDARD VENIA CRIT		1040.32			1.560000				8.1259	,	0
	VENASPH		-387.84			7.60000		269.55	-	0		0
	VENASPH									0.0574		0
	TANDARD										0	
	TANDARD					560000,				.975		0
	VENASPH		127.13								0	
STO	STANDAR	D							229		stop	
16 S	TANDARD)	234.7	8	33.014	1.560000	, 0.	000000	100	0.0504		0
17 E	VENASPH		-336.28	31	1			105.43	321	0		
18 S	TANDARD)	144.60	06	35 1.	560000,	0.0	00000	110.	8094		0
19 S	TANDARD)	968.53	34	16.804			109	.1169		0	
20 E	VENASPH		-793.31	6	35 1	560000,	0.00	00000	108.	6517		0
21 S	TANDARD				1		1	111.364	-8	0		
22 E	VENASPH		88.38	1	25 1.5	60000, (0.00	0000	91.52	245		0
	TANDARD							81.2	25708		0	
	STANDAR		Infin					32.500)53	0		



SURFACE DATA DETAIL:

Surface OBJ STANDARD

Surface 1 EVENASPH

Coefficient on r^2 : 0

Coefficient on r⁴ : 1.372961e-008 Coefficient on r⁶ : 3.473252e-013 Coefficient on r⁸ : -3.19572e-016 Coefficient on r¹⁰ : 9.094243e-020 Coefficient on r¹² : -1.434764e-023 Coefficient on r¹⁴ : 1.206555e-027 Coefficient on r¹⁶ : -4.210407e-032

Surface 2 STANDARD

Surface 3 EVENASPH

Coefficient on r^2 :

Coefficient on r⁴ : 2.151239e-008 Coefficient on r⁶ : 9.541648e-012 Coefficient on r⁸ : 4.776084e-016 Coefficient on r¹⁰ : 7.380865e-020 Coefficient on r¹² : -2.06359e-023 Coefficient on r¹⁴ : 4.825958e-027 Coefficient on r¹⁶ : -5.593776e-031

Surface 4 STANDARD

Surface 5 EVENASPH M1

Coefficient on r^2 :

Coefficient on r⁴ : 4.532898e-009 Coefficient on r⁶ : 1.823606e-012 Coefficient on r⁸ : 1.222571e-016 Coefficient on r¹⁰ : 1.631434e-020 Coefficient on r¹² : -8.711867e-025 Coefficient on r¹⁴ : 2.964757e-028 Coefficient on r¹⁶ : 1.525109e-033

Surface 6 STANDARD

Surface 7 EVENASPH

Coefficient on r^2 : 0

Coefficient on r⁴ : 2.151239e-008 Coefficient on r⁶ : 9.541648e-012 Coefficient on r⁸ : 4.776084e-016



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