

(111).

= 395 a.

29 a

(.1),
32 a.

(.1)

1 -

	$\Delta\psi$,	L,	$\langle \epsilon \rangle$, %	ϵ , %	σ , GPa	σ_0 ,
	0,61	25	0,35	-1,0	-3,25	0,4599
	0,47	60	0,75	-1,2	-3,8	0,4582

1.

ZrN-

2.

HF

25 nm

621.979.1

_____ . .

.A., . . , .

- . -

4

4

.

∴

:

;

III

II

$$\sigma_{rr} = -\frac{A}{n+1} \left[\left(\ln \frac{r}{R} \right)^{n+1} - \left(\ln \frac{r}{r} \right)^{n+1} \right];$$

$$\sigma_{\varphi\varphi} = -A \left(\ln \frac{r}{r} \right)^n - \frac{A}{n+1} \left[\left(\ln \frac{r}{R} \right)^{n+1} - \left(\ln \frac{r}{r} \right)^{n+1} \right];$$

$$e_{rr} + e_{\varphi\varphi} + e_{zz} = 0, \quad e_{rr} = -e_{\varphi\varphi}, \quad e_{\{\{\}} = \ln \frac{r+y}{r} \approx \frac{y}{r}.$$

:

II III

25

2

621.74

.....

Al,

Si

(Al-Si),

4-22 %.

(Cu, Ni, Mn