

Stability of Alienation

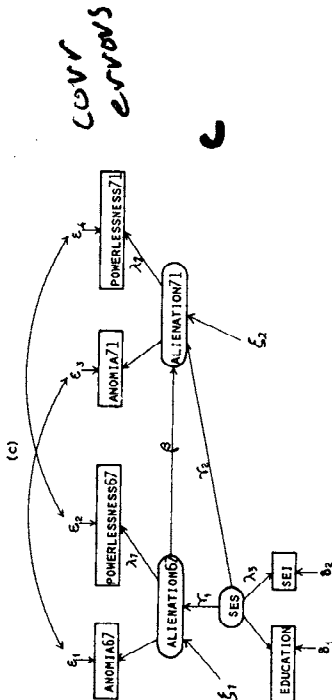
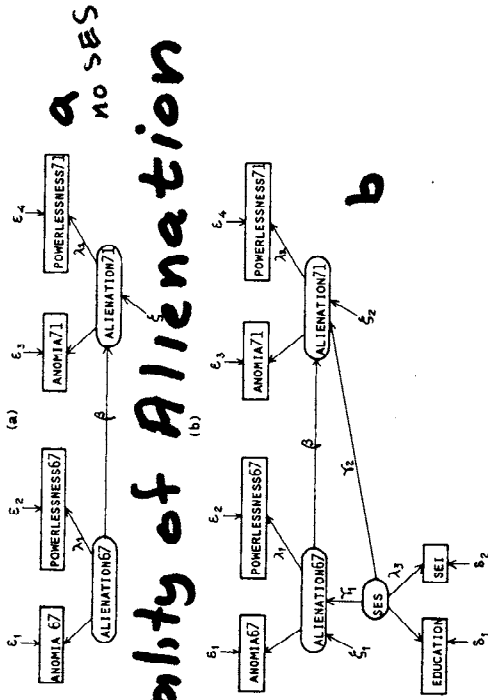


FIGURE 6. Models for study of stability of alienation.

TABLE 1

Parameter	Model 6a	Model 6b	Model 6c
λ_1	0.815 (0.040)	0.888 (0.041)	0.979 (0.062)
λ_2	0.847 (0.042)	0.849 (0.040)	0.922 (0.059)
λ_3		5.331 (0.430)	5.221 (0.422)
β	0.789 (0.044)	0.705 (0.054)	0.607 (0.051)
γ_1		-0.614 (0.056)	-0.575 (0.056)
γ_2		-0.174 (0.054)	-0.227 (0.052)
ψ_{11}		5.307 (0.473)	4.847 (0.468)
ψ_{22}	4.085 (0.432)	3.742 (0.388)	4.089 (0.405)
ϕ		6.663 (0.641)	6.803 (0.650)
σ_{η_1}		1.717 (0.145)	1.675 (0.151)
σ_{η_2}		16.153 (0.365)	16.273 (0.358)
σ_{η_3}	1.906 (0.097)	2.004 (0.086)	2.176 (0.104)
σ_{η_4}	1.865 (0.077)	1.786 (0.076)	1.602 (0.126)
σ_{η_5}	1.827 (0.109)	1.923 (0.097)	2.098 (0.123)
σ_{η_6}	1.969 (0.077)	1.904 (0.077)	1.754 (0.124)
$\text{CORT}(\epsilon_1, \epsilon_2)$			0.356 (0.047)
$\text{CORT}(\epsilon_3, \epsilon_4)$			0.121 (0.082)
χ^2	61.155	71.544	4.770
d.f.	1	6	4

covariance matrix of y_1, y_2, y_3 and y_4 is

$$\Sigma = \begin{bmatrix} \phi_1 + \theta_1^2 & & & \\ \beta_2 \phi_1 & \phi_2 + \theta_2^2 & & \\ \beta_3 \beta_2 \phi_1 & \beta_3 \phi_2 & \phi_3 + \theta_3^2 & \\ \beta_4 \beta_3 \beta_2 \phi_1 & \beta_4 \beta_3 \phi_2 & \beta_4 \phi_3 & \phi_4 + \theta_4^2 \end{bmatrix} \quad (40)$$

c f Satisfying a simplex structure is simpler than it should be

The simplex model can be put into the LISREL format, with no x . We write

$$\begin{pmatrix} y_1 \\ y_2 \\ y_3 \\ y_4 \end{pmatrix} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} f_1 \\ f_2 \\ f_3 \\ f_4 \end{bmatrix} + \begin{pmatrix} \epsilon_1 \\ \epsilon_2 \\ \epsilon_3 \\ 0 \end{pmatrix} \quad (41)$$

$$\begin{bmatrix} 1 & 0 & 0 & 0 \\ -\beta_2 & 1 & 0 & 0 \\ 0 & -\beta_3 & 1 & 0 \\ 0 & 0 & -\beta_4 & 1 \end{bmatrix} \begin{bmatrix} f_1 \\ f_2 \\ f_3 \\ f_4 \end{bmatrix} = \begin{bmatrix} \zeta_1 \\ \zeta_2 \\ \zeta_3 \\ \zeta_4 \end{bmatrix} \quad (42)$$

FIGURE 7. A simplex model.

