라제2 1世~6世 到首

- 3. みきずらみをするもろも yij, yizk みとかり (i) も i,) (ov (yij, yizk)
 - = Lov (M+ T(i) + Ai+ exij, M+ T(i) + Ai + exizk)

=
$$(ov(Ai_1 + ei_1), Ai_2 + ei_2k)$$

= $(ov(Ai_1, Ai_2) + (ov(Ai_1, ei_2k) + (ov(ei_1), Ai_2) + (ov(ei_1), ei_2k)$

외바라 A, -.. A, 는 목걸이라 en--- 은 2,00 호 목걸이 너무 A; 와 ei; 로 목걸이다.

Corr(yij, yik) = Cov(yij, yik)
$$\sqrt{V(yij)V(yik)}$$

$$= \frac{\delta_a^2}{\delta_a^2 + \delta_e^2}$$

$$\begin{array}{c|c}
X = \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 0 & 1 \end{bmatrix}$$

$$\begin{array}{c}
A = \begin{bmatrix} 0 \\ T \end{bmatrix}$$

$$\begin{array}{c}
-1 & -9 \\ 1 \\ \vdots \\
1 \\
1
\end{array}$$

$$Z_1 = Z_2 = Z_3 = Z_4 = \frac{1}{2}$$

$$\begin{array}{c|c}
 & A_1 \\
 & A_2 \\
 & A_3 \\
 & A_4
\end{array}$$

$$\frac{6}{\sqrt{(4)}} = \sqrt{(x_{1}^{2} + z_{1}^{2} + z_{1}^{2})} \\
= \sqrt{(z_{1}^{2})} + \sqrt{(z_{1}^{2})} \\
= z\sqrt{(b)}z^{t} + s_{1}^{2}z_{1}^{2} + s_{2}^{2}z_{1}^{2} + s_{3}^{2}z_{4}^{2}$$

$$ZV(\underline{b})Z^{t} = Z G_{\alpha}^{2} I_{4} Z^{t}$$

$$= G_{\alpha}^{2} Z Z^{t}$$

$$= G_{a}^{2} \begin{bmatrix} 11^{t} & 0 & 0 & 0 \\ 0 & 11^{t} & 0 & 0 \\ 0 & 0 & 11^{t} & 0 \\ 0 & 0 & 0 & 11^{t} \end{bmatrix}$$

けれみ

$$\frac{\sum = G_a^2 11^t + G_e^2 I}{= G_a^2 + G_e^2}$$

$$= G_a^2 + G_e^2$$

$$= G_a^2 + G_e^2$$

$$= G_a^2 + G_e^2$$

ध्य-पन