$$S_{uv} = \mathcal{L}(u) \mathcal{L}(v) \stackrel{N-1}{\geq} \stackrel{N-1}{\geq} S_{ij} \cos \frac{(2i+1)uz}{2N} \cos \frac{(2i+1)uz}{2N}$$

$$(k) = \begin{cases} \int_{N}^{1} & \text{for } k = 0 \\ \int_{N}^{2} & \text{for } k = 1, 2, \dots, N-1 \end{cases}$$

$$f = \begin{bmatrix} 10 & 10 & 20 & 20 \\ 10 & 10 & 20 & 20 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$
Solution

$$Suv = \mathcal{L}(u) \mathcal{L}(v) \stackrel{N-1}{\geq} \stackrel{N-1}{\geq} S_{ij} \cos \frac{(2i+1)w}{2N} \cos \frac{(2i+1)w}{2N}$$

程

$$d(u)$$
 $\sum_{i=0}^{N-1} cos \frac{(2i+1)uz}{2N}$ $\int_{i=0}^{N-1} cos \frac{(2i+1)uz}{2N}$
代表 $d(u)$ $\sum_{i=0}^{N-1} F_{iv} cos \frac{(2i+1)uz}{2N}$ $\int_{i=0}^{\infty} F_{iv}$

代数
$$\chi = \chi \left(u \right) \sum_{i=0}^{N-1} F_{iv} \cos \frac{(2it1)uz}{2N}$$
 F_{iv}

$$F_{iV} = \chi(V) \sum_{j=0}^{3} S_{ij} \alpha S \frac{(z_{j}+1)VT}{8}$$

$$= \chi(V) \left[S_{i0} \alpha S \frac{VZ}{8} + S_{i1} \cos \frac{3UZ}{8} + S_{i2} \cos \frac{3UZ}{8} \right]$$

$$+ S_{i2} \alpha S \frac{5VZ}{8} + S_{i3} \cos \frac{7VZ}{8} \right]$$

$$V_{i0} = \frac{1}{2} \sum_{j=0}^{10} \sum_{j=0}^{10$$

$$= \angle(u) \left[F_{0v} (65 - \frac{uz}{8}) + F_{1v} (65 - \frac{3uz}{8}) + F_{2v} (65 - \frac{3uz}{8}) + F_{3v} (65 - \frac{3uz}{8}) \right]$$

$$|e + v = 0, \quad F_{00} = 30 \quad F_{10} = 30 \quad F_{20} = 0 \quad F_{30} = 0$$

$$|S_{u0} = \angle(u) \left[30 \cos \frac{uz}{8} + 30 \cos \frac{3uz}{8} \right]$$

Det
$$u=0$$
, $S_{00} = \frac{1}{2}[30+30] = 30$
 $u=1$, $S_{10} = \frac{30}{J_{2}}[\cos \frac{\pi}{8} + \cos \frac{3\pi}{8}] \approx 27.7/64$
 $u=2$, $S_{20} = \frac{30}{J_{2}}[\cos \frac{\pi}{4} + \cos \frac{3\pi}{4}] = 0$
 $u=3$, $S_{20} = \frac{30}{J_{2}}[\cos \frac{\pi}{8} + \cos \frac{9\pi}{8}] \approx -11.4805$
 $S_{u0} = [30 \ 27.7164 \ 0 \ -11.4805]^{T}$
 $\Theta[e+V=1]$, $S_{u1} = J(u)[-9.2388\cos \frac{u\pi}{8} - 9.2388\cos \frac{3u\pi}{8}]$
 $let u=0$, $S_{01} = \frac{1}{2}[-9.2388\cos \frac{u\pi}{8} - 9.2388\cos \frac{3\pi}{8}] = -9.2398$
 $u=1$, $S_{11} = -\frac{9.2388}{J_{2}}[\cos \frac{\pi}{8} + \cot \frac{3\pi}{9}] \approx -8.5355$
 $u=2$, $S_{21} = -\frac{9.2388}{J_{2}}[\cos \frac{3\pi}{8} + \cot \frac{6\pi}{9}] = 0$
 $u=3$, $S_{31} = -\frac{9.2388}{J_{2}}[\cos \frac{3\pi}{8} + \cot \frac{9\pi}{9}] \approx 3.5355$
 $S_{11} = [-9.2388] = -8.3355 = 0 \ 3.5355]^{T}$
 $\Theta[e+v=2$, $S_{11} = -\frac{9.2388}{J_{2}}[\cos \frac{3\pi}{8} + \cot \frac{9\pi}{8}] \approx 3.8268 \cos \frac{3u\pi}{8}$
 $\Theta[e+v=2]$, $S_{11} = -\frac{9.2388}{J_{2}}[\cos \frac{3\pi}{8} + \cot \frac{9\pi}{8}] \approx 3.5355$
 $O(1) = \frac{1}{2}[3.8268] = \frac{3.8268}{3.8268} = \frac{3.8268}{3.8268} = \frac{3.8268}{3.8265} = \frac{3.8268}$