$$\begin{split} \chi_{e} &= (142 \cdot \cos(\theta_{2}) + 158'9 \cdot \cos(\theta_{2} + \theta_{3}) + 44'5 \cdot \cos(\theta_{2} + \theta_{3} + \theta_{4}) + 106'1) \cdot \cos(\theta_{1}) \\ \chi_{e} &= (142 \cdot \cos(\theta_{2}) + 158'9 \cdot \cos(\theta_{2} + \theta_{3}) + 144'5 \cdot \cos(\theta_{2} + \theta_{3} + \theta_{4}) + 106'1) \cdot \sin(\theta_{4}) \\ \chi_{e} &= -142 \cdot \sin(\theta_{2}) - 158'9 \cdot \sin(\theta_{2} + \theta_{3}) - 44'5 \cdot \sin(\theta_{2} + \theta_{3} + \theta_{4}) + 13'2 \\ \chi_{e}^{2} + \chi_{e}^{2} + \chi_{e}^{2} &= -3748'8 \cdot \sin(\theta_{2}) - 4194'96 \cdot \sin(\theta_{2} + \theta_{3}) - 1174'8 \cdot \sin(\theta_{2} + \theta_{3} + \theta_{4}) + 13'2 \\ \chi_{e}^{2} + \chi_{e}^{2} + \chi_{e}^{2} &= -3748'8 \cdot \sin(\theta_{2}) - 4194'96 \cdot \sin(\theta_{2} + \theta_{3}) - 1174'8 \cdot \sin(\theta_{2} + \theta_{3} + \theta_{4}) + 13'2 \cdot \sin(\theta_{2} + \theta_{3} + \theta_{4}) + 13'2 \cdot \cos(\theta_{4}) + 13'2 \cdot \sin(\theta_{2} + \theta_{3} + \theta_{4}) + 12'2 \cdot \cos(\theta_{3}) + 141142'1 \cdot \cos(\theta_{4}) + 13'2 \cdot \sin(\theta_{2} + \theta_{3} + \theta_{4}) + 12'2 \cdot \cos(\theta_{3} + \theta_{4}) + 12'2 \cdot \cos(\theta_{3} + \theta_{4}) + 12'2 \cdot \cos(\theta_{2} + \theta_{3} + \theta_{4}) + 12'2 \cdot \cos(\theta_{3} + \theta_{4}) + 12'2 \cdot \cos($$

$$\mathcal{L} = \alpha_{2x} + \alpha_{3x} = \chi_{e}$$

$$H = (\alpha_{1y} + \alpha_{2y}) - (\alpha_{3y} + \alpha_{4y}) = Z_{e}$$

$$C_{2x} = \alpha_{2} \cdot \cos(\theta_{2}) / / \alpha_{2}^{2} - \sin^{2}(\theta_{2}) \cdot \alpha_{2}^{2}$$

$$C_{3x} = C_{3} \cdot \cos(\theta_{3} - \theta_{2}) / / \alpha_{3}^{2} - \alpha_{3}^{2} \cdot \sin^{2}(\theta_{3} - \theta_{2})$$

$$\Theta_{4} = -(\theta_{3} - \Theta_{2}) + 90^{\circ} (\Pi_{2}) =$$

$$= 90 - \Theta_{3} + \Theta_{2}$$

$$\boxed{\Theta_{2} + \Theta_{3} = 90 - \Theta_{4}}$$

$$C_{4Y} = C_{4}$$

$$C_{2Y} = C_{2} \cdot \sin(\theta_{2}) / G_{2}^{2} \cdot \cos^{2}(\theta_{2}) + c_{2}^{2}$$

$$C_{3Y} = C_{3} \cdot \sin(\theta_{3} - \theta_{2}) / / - c_{3}^{2} \cdot \cos^{2}(\theta_{3} - \theta_{2}) + c_{3}^{2}$$

$$c_{4Y} = C_{4}$$

$$\oint_{e} = 90^{\circ} \left( \theta_{4} + (\theta_{3} - \theta_{2}) = \theta_{4} + \theta_{3} - \theta_{z} = 90 - \theta_{3} + \theta_{3} + \theta_{3} - \theta_{z} = 90 \right)$$

$$\begin{split} \chi_{e} &= c_{2} \cdot \omega_{S} \left(\theta_{2}\right) + c_{3} \cdot \omega_{S} \left(\theta_{3} - \theta_{2}\right) \\ Z_{e} &= \left(c_{4} + c_{2} \cdot \sin\left(\theta_{2}\right)\right) - \left(c_{3} \cdot \sin\left(\theta_{3} - \theta_{2}\right) + a_{4}\right) \\ \chi_{e} &= \left(a_{2} \cdot \cos\left(\theta_{2}\right) + c_{3} \cdot \cos\left(\theta_{2} + c_{3}\right) + c_{4} \cdot \cos\left(\theta_{4} + \theta_{2} + \theta_{3}\right) + c_{4}\right) \cdot \omega_{S} \left(\theta_{4}\right) \\ Z_{e} &= -c_{2} \cdot \sin\left(\theta_{2}\right) - c_{3} \cdot \sin\left(\theta_{2} + \theta_{3}\right) - c_{4} \cdot \sin\left(\theta_{2} + \theta_{3} + \theta_{4}\right) + 13' 2 \\ &- c_{2} \cdot \sin\left(\theta_{2}\right) - c_{3} \cdot \sin\left(\theta_{2} - c_{4} \cdot \sin\left(\theta_{2}\right) - c_{4} \cdot \sin\left(\theta_{2}\right) + 13' 2 = c_{4} + c_{2} \cdot \sin\left(\theta_{2}\right) - c_{3} \cdot \sin\left(\theta_{2}\right) - c_{4} \cdot \cos\left(\theta_{2}\right) - c_{4} \cdot \sin\left(\theta_{2}\right) - c_{4} \cdot \cos\left(\theta_{2}\right) - c_{4$$