

$$V_{spring}(\eta_{1}\eta_{2}) = \frac{1}{2} \ker \left[ a - (x_{10} + \eta_{1})^{2} + \frac{1}{2} \ker \left[ a - (x_{20} + \eta_{2}) - (\eta_{1} - \eta_{1})^{2} + \frac{1}{2} \ker \left[ a - (x_{20} + \eta_{2}) - (\eta_{10} + \eta_{1})^{2} + \frac{1}{2} \ker \left[ a - (x_{20} + \eta_{2}) - (\eta_{10} + \eta_{1}) \right] \right]$$

$$V_{contourb}(\eta_{1}, \eta_{2}) = \frac{1}{4\pi i_{0}} \frac{q^{2}}{(x_{20} + \eta_{10}) - (\eta_{10} + \eta_{10})}$$

$$\frac{3V_{spring}}{1 + \eta_{1}^{2}} = 2k, \quad \frac{3V_{spring}}{1 + \eta_{1}^{2}} = -k, \quad \frac{3V_{spring}}{1 + \eta_{1}^{2}} = 2k$$

$$\frac{3V_{contourb}}{1 + \eta_{1}^{2}} = 2k, \quad \frac{3V_{contourb}}{1 + \eta_{1}^{2}} = -k, \quad \frac{3V_{contourb}}{1 + \eta_{1}^{2}} = 2k$$

$$\frac{3V_{contourb}}{1 + \eta_{1}^{2}} = 2k, \quad \frac{3V_{contourb}}{1 + \eta_{1}^{2}} = -k, \quad \frac{3V_{contourb}}{1 + \eta_{1}^{2}} = -$$

$$\begin{bmatrix} 2k + \frac{\epsilon q^2}{r_0} - w^2 m & -\frac{k}{2} - \frac{\epsilon q^2}{2r_0} \\ -\frac{k}{2} - \frac{\epsilon q^2}{2r_0} & 2k + \frac{\epsilon q^2}{r_0} - w^2 m \end{bmatrix} \begin{bmatrix} a_1 \\ a_2 \end{bmatrix}^{\frac{1}{2}}$$

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