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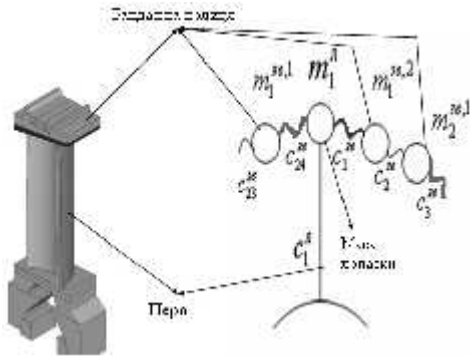
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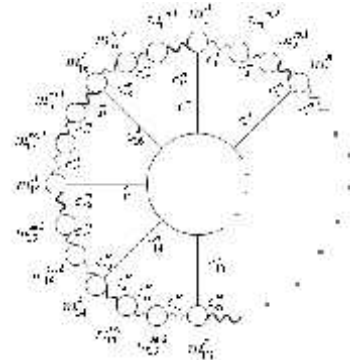
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$$\begin{cases} m_j \ddot{q}_{i+1} + (c_j + c_{i+1} + c_i - \tilde{c}_{j-1})q_{i+1} - c_{i+1}^z q_{i+2} - c_i q_i = F_j(t) \\ m_j^2 \ddot{q}_{i+2} + (c_{i+1} + c_{i+2})q_{i+2} - c_{i+2}q_{i+3} - c_{i+1}q_{i+1} = 0 \\ m_{j+1}^1 \ddot{q}_{i+3} + (c_{i+2} + c_{i+3} - \tilde{c}_j)q_{i+3} - c_{i+2}q_{i+2} - c_{i+3}q_{i+4} = 0 \end{cases}, \quad \begin{matrix} i=3 \cdot (j-1) \\ j=\overline{1, N} \end{matrix}, \quad (1)$$

$q_0 = q_{24}, q_{25} = q_1, m_8^3 = m_1^1, \tilde{c}_0 = \tilde{c}_N$, $F_j(t)$ -

$$F_j(t) = e^{i\tilde{S}t} \cdot e^{ir_j}, \quad r_j = \frac{2f(j-1)k}{N}, \quad (2)$$

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