Chapter 6 Oscillations

The potential energy then reduces to

$$V = \frac{k}{2}(\eta_2 - \eta_1)^2 + \frac{k}{2}(\eta_3 - \eta_2)^2,$$

OF

$$V = \frac{k}{2}(\eta_1^2 + 2\eta_2^2 + \eta_3^2 - 2\eta_1\eta_2 - 2\eta_2\eta_3). \tag{6.49}$$

Hence, the V tensor has the form

$$\mathbf{V} = \begin{pmatrix} k & -k & 0 \\ -k & 2k & -k \\ 0 & -k & k \end{pmatrix}. \tag{6.50}$$

The kinetic energy has an even simpler form:

$$T = \frac{m}{2}(\dot{\eta}_1^2 + \dot{\eta}_3^2) + \frac{M}{2}\dot{\eta}_2^2,\tag{6.51}$$

so that the T tensor is diagonal:

$$\mathbf{T} = \begin{pmatrix} m & 0 & 0 \\ 0 & M & 0 \\ 0 & 0 & m \end{pmatrix}. \tag{6.52}$$

Combining these two tensors, the secular equation appears as

$$|\mathbf{V} - \omega^2 \mathbf{T}| = \begin{vmatrix} k - \omega^2 m & -k & 0 \\ -k & 2k - \omega^2 M & -k \\ 0 & -k & k - \omega^2 m \end{vmatrix} = 0.$$
 (6.53)

Direct evaluation of the determinant leads to the cubic equation in ω^2 :

$$\omega^{2}(k - \omega^{2}m)(k(M + 2m) - \omega^{2}Mm) = 0, \qquad (6.54)$$

with the obvious solutions

$$\omega_1 = 0$$
, $\omega_2 = \sqrt{\frac{k}{m}}$, $\omega^3 = \sqrt{\frac{k}{m} \left(1 + \frac{2m}{M}\right)}$. (6.55)

The first eigenvalue, $\omega_1 = 0$, may appear somewhat surprising and even alarming at first sight. Such a solution does not correspond to an oscillatory motion at all, for the equation of motion for the corresponding normal coordinate is

$$\ddot{\zeta}_1 = 0$$
,

which produces a uniform translational motion. But this is precisely the key to the difficulty. The vanishing frequency arises from the fact that the molecule

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web according to grove music handel s keyboard music was all probably for harpsichord and written before 1720 unless otherwise stated none of the pieces in these suites are designated otherwise so they are tagged for harpsichord although the work list notes that hwv 436 was probably post 1720

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web the earliest complete publication contains only music from the first two suites the sequence of numbers and their groupings into suites is quite inconsistent from publication to publication the designation of the three suites appears to