internal valence force field

Acronym: IVFF

A force field expressed in terms of bond-stretching, angle-bending, torsional and other displacements directly connected to the structural parameters of the molecule:

$$V = \frac{1}{2} \sum k_{ij} R_i R_j$$

or

$$V = \frac{1}{2} \sum K_{ij} R_i R_j$$

where k (or K) are the force constants and R the internal valence coordinates.

Source:
PAC, 1978, *50*, 1707 *(Definition and symbolism of molecular force constants)* on page 1709