

# Calculation Of Non Adiabatic Matrix Elements

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Abstract For all bound and quasibound levels of the ground electronic state of all six isotopes of diatomic hydrogen, wavefunctions obtained from the most recent ab initio potentials are used to calculate expectation values of the nuclear kinetic energy, of various powers of  $R^{-1}$ , and of the average polarizability and polarizability anisotropy, together with the off-diagonal matrix elements of ...

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The equation shows that the element stiffness matrix for the linear spring element is a  $2 \times 2$  matrix. This corresponds to the fact that the element exhibits two nodal displacements (or degrees of freedom) and that the two displacements are not independent (that is, the body is continuous and elastic). Furthermore, the matrix is symmetric.

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