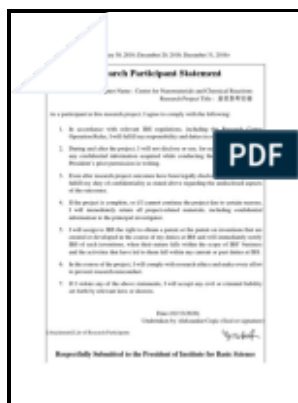


Tables for the rigid asymmetric rotor - transformation coefficients from symmetric to asymmetric bases and expectation values of Pz2, Pz4, and Pz6

U.S. Dept. of Commerce, National Bureau of Standards - Symmetrical and Asymmetrical Currents in Short Circuit Faults



Description: -

- Angular momentum (Nuclear physics) Tables for the rigid asymmetric rotor - transformation coefficients from symmetric to asymmetric bases and expectation values of Pz2, Pz4, and Pz6

- NSRDS-NBS -- 12

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Symmetrical and Asymmetrical Currents in Short Circuit Faults

For a linear molecule the separation of lines in the rotational spectrum can be related directly to the moment of inertia of the molecule. The subscript, o, is to emphasize the linear superposition is valid for large displacements only if the components are successively applied to the original position vector base lengths as is customary in engineering. Extension to 3D is straightforward conceptually, but difficult to draw.

Linear and Asymmetric Rotors

Asymmetric Transformation Consider first the displacement due to an asymmetric tensor such as: It can be shown to produce a rotation? Sometimes asymmetric tops have rotational spectra that are similar to those of a linear molecule or a symmetric top, in which case the molecular structure must also be similar to that of a linear molecule or a symmetric top. Depending on the relative size of the inertia moments, rotors can be divided into four classes. Asymmetric rotors are molecules for which all three moments of inertia are different.

Simplified methods for the computation of asymmetric rotor energy levels and line strengths

The energy levels of asymmetric rotors are rather too complex to go into here. For most purposes I A can be taken to be zero.

Instabilities of an Asymmetric Rotor With Asymmetric Shaft Mounted on Symmetric Elastic Supports

We may now treat this as a special case of a symmetric rotor — the moments of inertia about two axes perpendicular to the molecular axis are both equal, and different from the moment of inertia about the principle axis.

Classification of rigid rotors

Symmetric tops have a three-fold or higher rotational symmetry axis.

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