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The influence of vibrational state-resolved transport coefficients on the wave propagation in diatomic gases

Gilberto M. Kremer, Olga V. Kunova, Elena V. Kustova, George P. Oblapenko



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Highlights

- 1) Kinetic model for state-resolved transport coefficients.
- 2) Dependence of the molecular diameters on the vibrational state
- 3) Dependence of the transport coefficients on the vibrational state
- 4) Wave propagation for gases with vibrational excitations.

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