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# A model kinetic equation for polyatomic gases, taking into account rotational degrees of molecules freedom

© A.B. Poddoskin

Bauman Moscow State Technical University, Moscow, 105005, Russia

*The study offers a model kinetic equation for a polyatomic gas, taking into account rotational degrees of molecules freedom. Three free parameters of the model are associated with Eucken partial factors, which depend on the intensity of the energy exchange between the progressive and rotational degrees of freedom, frequency of elastic and inelastic collisions of gas molecules.*

**Keywords:** polyatomic gas, a model kinetic equation, rotational degrees of molecules freedom.

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**Poddoskin A.B.** (b. 1951) graduated from the Physical Faculty of Krupskaya Moscow Region Pedagogical Institute in 1972. Dr. Sci. (Phys.&Math.), Professor of the Physics Department at Bauman Moscow State Technical University. Author of over 100 scientific works in the field of kinetic theory of gases and dynamics of aerosol particles. e-mail: apoddoskin@yandex.ru

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