

ANALYSIS OF THE DIFFUSION RATE IN LIQUIDS
WITHIN THE RANDOM WALK MODEL

K. V. Avdonin

Kyiv National University of Technology and Design
(6, Academician Glushkov Prosp., Kyiv 03127, Ukraine)

S u m m a r y

A description of the diffusion rate in liquids is given within the molecular random walk model. A new mathematical model is worked out and applied to find the explicit time-dependences of a mathematical expectation and the concentration of molecules at the diffusion front and to calculate new expressions for the probability density distribution functions.