

# Computer Simulations With Mathematica R Explorations In Complex Physical And Biological Systems

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The  $u(r)$  term represents an externally applied potential field or the effects of the container walls; it is usually dropped for fully periodic simulations of bulk systems Also, it is usual to concentrate on the pair potential  $v(r_i;r_j) = v(r_{ij})$  and neglect three-body (and higher order) interactions

**A Monte Carlo simulation study of branched polymers**

$K R^2 / R_m$ , where  $R^2$  is the mean-square end-to-end distance and  $R_m$  is the end-to-end distance at full extension in the range of 1 K 15–2 nm This corresponds to about 6 monomers; a fully flexible polymer composed of tangent freely jointed hard spheres has a Kuhn length that corresponds to ...

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