Linear Copolymerisation in FORTRAN 2008

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The probability of reaction between monomers i, j is calculated by dividing the speed at which monomers i, j react by all possible reactions of i with other monomers

$$P_{ij} = \frac{k_{ij}[i][j]}{\sum_{j=1}^{N} k_{ij}[i][j]}$$

$$P_{ij} = \frac{k_{ij}[i][j]}{[i] \sum_{j=1}^{N} k_{ij}[j]}$$

$$P_{ij} = \frac{k_{ij}[j]}{\sum_{j=1}^{N} k_{ij}[j]}$$
(1)

where $k \equiv$ reaction speed constant and $[\cdots]$ denotes concentration.