Některé stavové rovnice

Ideální plyn	$p = \frac{RT}{V_m}$
Van der Waals	$p = \frac{RT}{V_m - b} - \frac{a}{V_m^2}$
Berthelot	$p = \frac{RT}{V_m - b} - \frac{a}{T\,V_m^2}$
Redlich-Kwong	$p = \frac{RT}{V_m - b} - \frac{a}{T^{1/2}\,V_m\,(V_m + b)}$
Dieterici	$p = \frac{RT\ e^{-a/RTV_m}}{V_m - b}$
Beattie-Bridgeman	$p = \frac{(1-\gamma)\,RT\,(V_m + \beta) - \alpha}{V_m^2}$; $\alpha = a_o(1 + \frac{a}{V_m})$ $\beta = b_o(1 - \frac{b}{V_m})$; $\gamma = \frac{c_o}{V_m . T^3}$
Viriální rozvoj (Kammerlingh-Ones)	$p = \frac{RT}{V_m}\left(1 + \frac{B}{V_m} + \frac{C}{V_m^2} + \cdots\right)$ $z = \frac{p\,V_m}{RT} = 1 + \frac{p}{RT}\left(B' + C'p + D'p^2 + \cdots\right)$