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A simple and robust algorithm for liquid-liquid equilibria in polymer solution

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The method of alternating tangests was modified for fast calculation of liquid-liquid equilibria of polymer solutions.(Fluid Phase Equilibria 222–223 (2004) 87–93) Unlike previous some algorithm about LLE of polymer solutions, this approach doesn't require the information of spinodal point of the system. Only the information of phase splitting was required for implementation. It was tested with High-Danner EOS and NLFHB EOS(Non-random lattice fluid equation of state) and showed that calculation load could be diminished in contrast with B.C Lee's algorithm (AICHE, 1996)