RESEARCH PAPERS

混合蒸汽在活性炭上的吸附平衡

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摘要　The XG equation, which is developed by us previously for describing the adsorption equilibrium of purevapor on activated carbon, is extended to multi-component system. Verified by experimental data, the extendedXG equation was found to be more successful in predicting the adsorption equilibrium of vapor mixture on activatedcarbon than the extended Langmuir equation, the extended BET equation and the ideal adsorbed solution theory(IAST).

关键词　 adsorption　 vapor mixture　 activated carbon

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Extended XG Equation for the Prediction of Adsorption Equilibrium of Vapor Mixture on Activated Carbon

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Abstract　The XG equation, which is developed by us previously for describing the adsorption equilibrium of purevapor on activated carbon, is extended to multi-component system. Verified by experimental data, the extendedXG equation was found to be more successful in predicting the adsorption equilibrium of vapor mixture on activatedcarbon than the extended Langmuir equation, the extended BET equation and the ideal adsorbed solution theory(IAST).

Key words　adsorption; vapor mixture; activated carbon

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