

Effects of the desorbent flowrate on SMB performance at the constant m_2 , m_3 and m_4 values

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This article presents the effects of the desorbent flowrate (or m_1) on SMB (simulated moving bed) performance at the constant m_2 , m_3 and m_4 , where the m -values (m_j) are defined as the net flowrate ratios of the zone, j , to the solid flowrate.

We explain how the desorbent flowrate is determined within the complete m -plane to enhance the SMB process performance. The effect of the desorbent flowrate is examined for the linear and nonlinear adsorption systems and their numerical results are shown.