

ERRATA

In "Fine Structure of the CSTR Parameter Space" by V. K. Kwong and T. T. Tsotsis [*AIChE J.*, **29**, 343 (1983)] the second paragraph on the right-hand column of page 344 should read as follows:

The correct dynamic behavior for regions IV_C and IV_D is shown in Figure 3. (The types of dynamic behavior shown in Figure 3 are formally correct if one neglects a normally narrow region of $D\alpha$ numbers around the saddle-point separatrix loop type bifurcation point on the upper steady-state branch, which is often characterized by complex dynamic behavior—Kwong (1982). Strictly speaking, however, the saddle-point separatrix loop type bifurcation behavior shown in Figure 3, as well as in regions IV_C and IV_D of Williams and Calo (1981) and in region IV_A of Uppal, Ray and Poore (1979) is topologically incorrect since the saddle-point separatrix loop is unstable and a stable limit cycle cannot annihilate into an unstable saddle-point separatrix loop. A detailed account of the complex issues and types of bifurcation associated with saddle and saddle-node separatrix loops exceeds the scope of this publication and will be presented in a forthcoming publication.) For region IV_C there

are two types of stability behavior. The first type, which we define as IV_{C1} , contains a new type of a phase plot which, to be consistent with previous publications on the subject, we call phase-plot type K. This phase plot is schematically shown in Figure 4. In this phase plot, there are three steady states. The upper state is stable. The low state is also stable, but it is surrounded by an unstable limit cycle. Thus, qualitatively, phase-plot type K is similar to the phase-plot type H of Uppal et al. (1974). However, in region H of Uppal et al. (1974) the upper state is the one which is surrounded by a limit cycle. It is interesting to note that in region IV_{C1} , a type-E region (without limit cycles) is surrounded by two regions, i.e., F and K, each having a single limit cycle.

The following addition should also be made to the "Literature Cited" section on page 347:

Kwong, V.-K., "Bifurcation Phenomena in Lumped Parametric Arrhenius Type Reaction Systems with Finite Activation Energies," MS Thesis, University of Southern California, December 1982.