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Corrigendum

Corrigendum to "How catalytic mechanisms reveal themselves in multiple steady-state data: II. An ethylene hydrogenation example" [J. Mol. Catal. A: Chem. 154 (2000) 169–184]

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Although the analysis in the paper was in accord with laboratory data, those data were reported incorrectly in Table 1 and in the surrounding text. In particular, the measured surface concentration of hydrogen in steady state 1 was *higher*, not lower, than in steady state 2. Thus, Table 1 should read:

Table 1. Multiple steady state data

	c_{H_2} (mol/m^3)	$c_{C_2H_4}$ (mol/m^3)	$c_{C_2H_6}$ (mol/m^3)	c_{H-S}
Steady state #1	9.24	0.99	0.64	Higher
Steady state #2	8.89	0.64	0.99	Lower

The last sentence of the paragraph at the top of page 175 should read: "In addition, the hydrogen surface activity measurements indicated that *less* hydrogen was adsorbed on the catalytic surface in the second steady state than in the first steady state."

The text surrounding Eq. (9) should read: "First, since there is *less* hydrogen adsorbed on the catalytic surface in steady state #2 than in steady state #1, Eq. (6) produces the condition:

$$\mu_{H-S} = \ln(c^{**}_{H-S}/c^{*}_{H-S}) < 0 \tag{9}$$

Note, in particular, that the inequality sign in (9) should appear as above.

Finally, (10) should read:

$$\text{At least one of the remaining } \mu\text{'s related to the surface species must be positive} \tag{10}$$

Again, the subsequent analysis in the paper was in accord with the actual laboratory data, as reported in this corrigendum and in the Ph.D. theses of P. Ellison and M.-H. Yue (references [8,10] of the article).

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