

Erratum to: Research on closed loop supply chain with reference price effect

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There are some calculation errors in the original publication of the paper, and Figs. 1–4, 9–14, 16 and 17 were published incorrectly. Therefore, the authors would like to make the following rectification:

1. The inaccurate Figs. 1–4 should be replaced with a table (Table 1). The reason is that the optimal performance for the M-, R-, and 3P-managed models is so close to each other numerically, and the subtle difference was not illustrated in the figures. However, Table 1 in this erratum shows the actual difference and is more helpful in understanding Corollaries 1–3.
2. Secondly, the more accurate Figs. 9, 10, 11, 12, 13, 14, 16 and 17 are displayed with this erratum ($r = 30, c_m = 20, c_r = 10, A = 5, B = 1,000, \phi = 100, \beta = 0.5$).

Table 1 The effect of reference price coefficient on the optimal performance in M-, R- and 3P-managed channels, respectively

	Reference price coefficient (δ)				
	0.5	1	1.5	2	2.5
The retail price (p^*)					
<i>Model M</i>	91.10	69.84	59.21	52.83	48.57
<i>Model R</i>	88.58	66.48	55.41	48.76	44.32
<i>Model 3P</i>	91.21	69.96	59.33	52.96	48.70
The collection rate (τ^*)					
<i>Model M</i>	0.0596	0.0628	0.0660	0.0693	0.0726
<i>Model R</i>	0.0597	0.0631	0.0665	0.0698	0.0732
<i>Model 3P</i>	0.0297	0.0313	0.0329	0.0345	0.0361
The profit of the manufacturer (Π_M^*)					
<i>Model M</i>	1,132	837	693	610	555
<i>Model R</i>	1,135	841	697	614	562
<i>Model 3P</i>	1,130	835	691	607	554
The profit of the retailer (Π_R^*)					
<i>Model M</i>	569	421	349	307	281
<i>Model R</i>	571	425	353	312	286
<i>Model 3P</i>	566	419	347	305	278

$r = 30, c_m = 20, c_r = 10, A = 5, B = 1,000, \phi = 100, \beta = 0.5$

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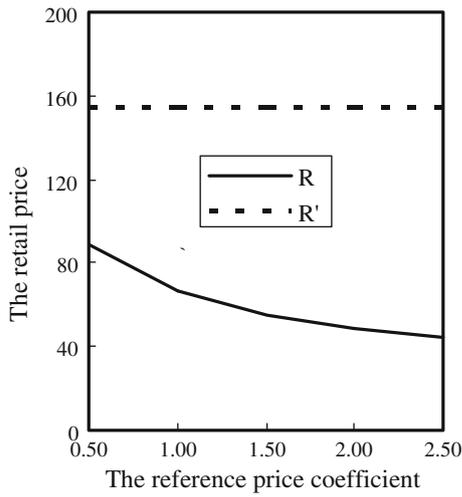


Fig. 9 The retail price (R) with reference price effect versus (R') without reference price effect in R -managed channel

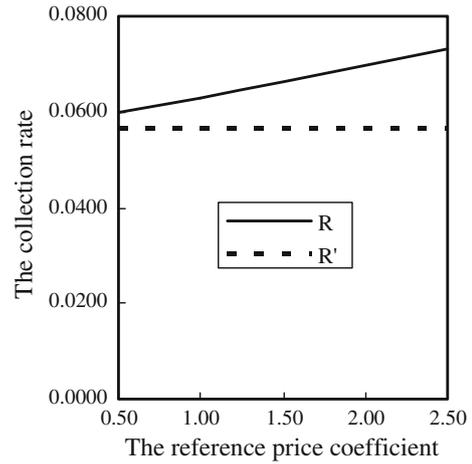


Fig. 12 The collection rate (R) with reference price effect versus (R') without reference price effect in R -managed channel

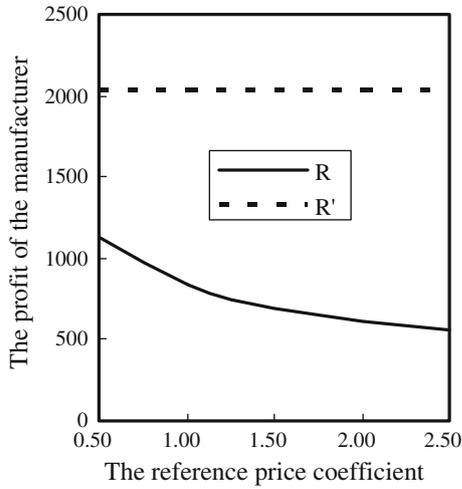


Fig. 10 The manufacturer's profit (R) with reference price effect versus (R') without reference price effect in R -managed channel

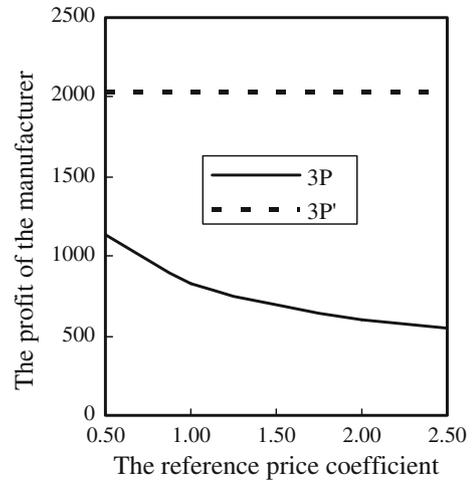


Fig. 13 The manufacturer's profit ($3P$) with reference price effect versus ($3P'$) without reference price effect in $3P$ -managed channel

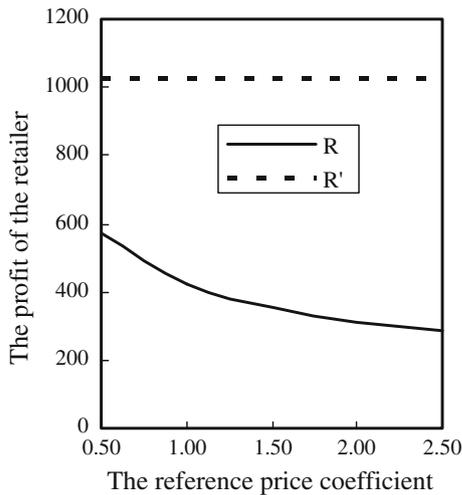


Fig. 11 The retailer's profit (R) with reference price effect versus (R') without reference price effect in R -managed channel

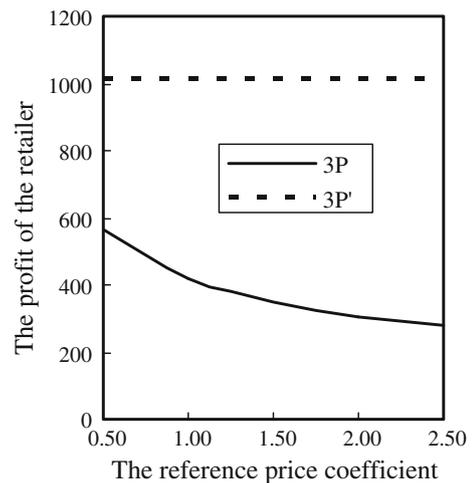


Fig. 14 The retailer's profit ($3P$) with reference price effect versus ($3P'$) without reference price effect in $3P$ -managed channel

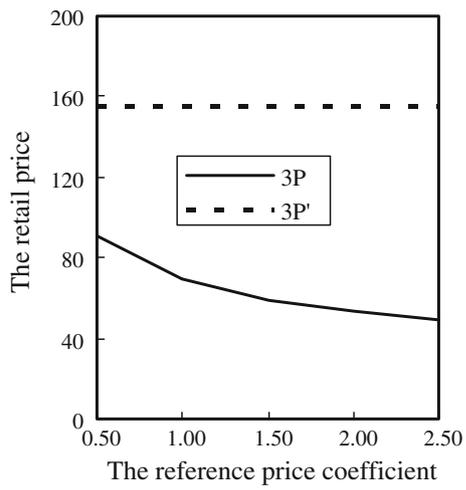


Fig. 16 The retail price ($3P$) with reference price effect versus ($3P'$) without reference price effect in $3P$ -managed channel

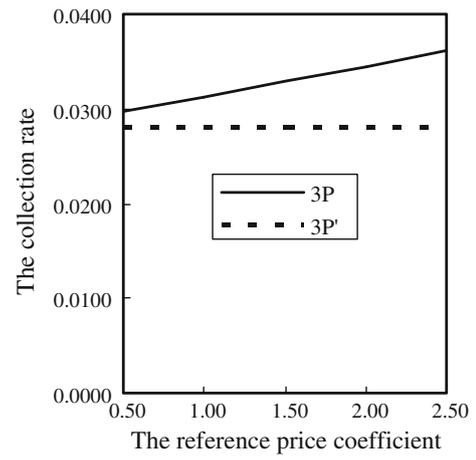


Fig. 17 The collection rate ($3P$) with reference price effect versus ($3P'$) without reference price effect in $3P$ -managed channel