TABLE 1: Estimated Type I error rates when independent variables and measurement errors are all normal, and reliability of W_1 and W_2 both equal 0.90.

	Correlation between X_1 and X_2				
N	0.0	0.2	0.4	0.6	0.8
25% of variance in Y is explained by X_1					
50	0.0476†	0.0505†	0.0636	0.0715	0.0913
100	0.0504†	0.0521†	0.0834	0.0940	0.1294
250	0.0467†	0.0533†	0.1402	0.1624	0.2544
500	0.0468†	0.0595†	0.2300	0.2892	0.4649
1,000	0.0505†	0.0734	0.4094	0.5057	0.7431
50% of variance in Y is explained by X_1					
50	0.0460†	0.0520†	0.0963	0.1106	0.1633
100	0.0535†	0.0569†	0.1461	0.1857	0.2837
250	0.0483†	0.0625	0.3068	0.3731	0.5864
500	0.0515†	0.0780	0.5323	0.6488	0.8837
1,000	0.0481†	0.1185	0.8273	0.9088	0.9907
75% of variance in Y is explained by X_1					
50	0.0485†	0.0579†	0.1727	0.2089	0.3442
100	0.0541†	0.0679	0.3101	0.3785	0.6031
250	0.0479†	0.0856	0.6450	0.7523	0.9434
500	0.0445†	0.1323	0.9109	0.9635	0.9992
1,000	0.0522†	0.2179	0.9959	0.9998	1.00000

†Not significantly different from 0.05, Bonferroni corrected for 7,500 tests.