## ERRATA CORRECTIONS FOR SECOND EDITION OF CAUSALITY

## 8/25/09 Updated

**page 346** paragraph 3, line 7: **replace** section starting, 'For example,  $\{Z_1, V\}$ ,  $\{Z_2, V\}$ , or  $\{Z_1, Z_2\}$ , ...''

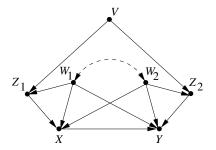
with

For example, V and  $Z_2$  can be removed from C by successively applying conditions  $C_1$  and  $C_2$ , thus producing an irreducible subset,  $\{Z_1, W_1, W_2\}$ , *c*-equivalent to the original covariate set C. However, this subset is inadmissible for adjustment because, like C, it does not satisfy the back-door criterion. **continue** with "While a theorem ..."

page 346 replace first equation of Section 11.3.4 with:

V		$\{W_1, W_2\}$	X	Ш	$\{V, Z_2\} \{Z_1, W_2, W_1\}$
$Z_1$		$\{W_2, Z_2\} \{V, W_2\}$	V		$Y \{X, Z_2, W_2, Z_1, W_1\}$
$Z_2$	Ш	$\{W_1, Z_1, X\}   \{V, W_2\}$			

page 347 correction to fi gure caption 11.9



## page 346-7 Replace text from

"A less trivial example..."

through

"...not possibly have direct effect on Y."

with

A less trivial example, one that is not sensitive to choice of parameters, lies in the class of equivalent structures, in which all conditional independencies emanate from graph separations. The search techniques developed in Chapter 2 provide systematic ways of representing all equivalent models compatible with a given set of conditional independence relations.

Substantive causal knowledge may provide valuable information for such decisions. For example, the model of Figure 11.9 can be ruled out if we have good reasons to believe that variable  $W_2$  cannot have any influence on X (e.g., it may occur *later* than X), or that  $W_1$  could not possibly have direct effect on Y.