CHAPTER 1

A Useful Formula

1. Disappearing Deductibles

On p. 29 Brown gives an example of a disappearing deductible. He does not, however, give a general formula. Here it is:

Assume that up to A dollars, we have a deductible of D_o . Our deductible disappears linearly for claims between A and B, vanishing at B. Then for a loss of L between A and B the deductible is

$$D = \frac{B - L}{B - A} D_o.$$

You can check that this is correct by noting that at L = A this formula yields D_o while at L = B, it yields 0.

To solve Example 2.1 on p. 29 of Brown, for example, we apply this formula with B = 2000, A = 1000, $D_o = 250$, and L = 1300.