

Errata for Nahin's *The Logician and the Engineer*

(1) On p. 30, in the second paragraph, the word *Nobel* should be *Noble*.

(2) On p. 54, that page's final line should be replaced with:

$$TC + CJ = C(T + J) = 1,$$

and then followed with

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and so  $C = 1$  and  $T + J = 1$ . The  $T + J = 1$  result says that either  $T = 1$  and  $J = 0$ , or that  $T = 0$  and  $J = 1$ . The formal possibility of  $T = J = 1$  is excluded because we just showed that  $C = 1$ , and we can have only one more variable equal to 1.

To determine which of  $T$  and  $J$  is the remaining variable equal to 1 (is the solution  $C = T = 1$ , or is it  $C = J = 1$ ?), we try both. First, set  $C = T = 1$  and set all the other variables to 0. Then, the third factor of (4.5.6),  $(T + C)$ , has both statements true (1), which is forbidden by the problem statement. So, let's try  $C = J = 1$  and set all the other variables to 0. Then (4.5.6) becomes

$$(1 + 0)(0 + 0)(0 + 1)(0 + 1)(0 + 1) = 0$$

and so we see that every factor but one on the left-hand-side has one true statement (1) and one false statement (0), and the remaining factor (the second one) has two false statements. This satisfies the problem statement

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The text now continues, from the word 'statement', with the top line of p. 55.

(3) On page 84, in Note 2, (1908-1978) should be replace with (1908-1970).

(4) On page 141, the last sentence of the first paragraph should be deleted.

Also, in what is now the last sentence of that paragraph, the words "plus one more state" should read "plus one more state transition".

- (5) On page 192, in the first sentence of the second paragraph the word *phenomenan* should be *phenomena*.
- (6) On page 205, in Note 3, *Baggage* should be *Babbage*. Also, *Goldstein* should be *Goldstine*.