

Errors in *Self-Checking and Fault-Tolerant Digital Design*

by Parag K. Lala

14:332:437 Concepts in Digital Systems Design

Fall 2004

Electrical and Computer Engineering Department

School of Engineering

Rutgers University

Prof. Michael L. Bushnell

September 13, 2004

1. The second equation on page 2 should be:

$$Q(t) = \frac{F(t)}{N}$$

2. The third equation on page 2 should be:

$$R(t) + Q(t) = 1$$

3. Equation 1.3 on page 3 should be:

$$\frac{dF(t)}{dt} = -N \frac{dR(t)}{dt}$$

4. In the top three equations at the top of page 4, replace  $\log_c$  with  $\log_e$  or  $\ln$ .

5. The second equation on page 11 should be:

$$R_{PS} = |1 - (1 - R_A)(1 - R_C)| |1 - (1 - R_B)(1 - R_D)|$$

6. On line 15 of page 15, the expression  $2k$  should be  $2^k$ .

7. On page 16, the eleventh line from the bottom, replace “double bit” with “double bit error.”

8. On page 18, the third line from the bottom should read:

$$C = \lceil \log_2(7 + 1) \rceil = 3$$