ERRATA SHEET FOR M. SAHINOGLU'S BOOK:
TRUSTWORTHY COMPUTING
ANALYTICAL AND QUANTITATIVE ENGINEERING EVALUATION

- **Page: xviii, line 38;** Replace "quantitative" with "numerical"
- **Page: xviii, line 39;** Replace "…Chapter 3, from…" with "…Chapter 3 from…"
- **Page: xix, line 40;** Remove quote marks before infrastructure
- **Page: xix, line 41;** Replace "Critical Systems:" with "Critical Systems;"
- **Page: xxi, line 43;** Insert "would" after "I"
- **Page: 7, line 5;** Replace "$h(t)\ dt = \dfrac{1}{R(t)}\ dR(t)$" with "$h(t)\ dt = -\dfrac{1}{R(t)}\ dR(t)$"

- **Page: 9, Notes;** Replace "$\theta =$ rate" with "$\theta =$ mean"
- **Page: 14, (63);** Replace "t*" with "x*"
- **Page: 18, line 12;** Replace "rate = uptime/(uptime + downtime" with "rate = downtime/(uptime + downtime)"
- **Page: 19, line 1;** Replace "$g_Q(q)$" with "$G_Q(q)$"
- **Page: 24, line 10;** Replace = " $\beta\left[-\ln(1-u_i)\right]^{1/\alpha}$ " with " $\alpha\left[-\ell n(1-u_{i)}\right]^{1/\beta}$ "
- **Page: 37, line 8;** Replace " $\hat{p} = 1 - r/n$ " with " $\hat{p} = \dfrac{r}{n}$ "
- **Page: 37, 2. Type I;** Replace " $\hat{\mu} = \dfrac{1}{n}(NT_0)$ " with " $\hat{\mu} = \dfrac{1}{r}(nT_0)$ "
- **Page: 37, 3. A;** Replace " $\dfrac{2r\hat{\mu}}{\chi^2_{(\alpha/2),2n}} < \mu < \dfrac{2r\hat{\mu}}{\chi^2_{(1-\alpha/2),2n}}$ " with " $\dfrac{2r\hat{\mu}}{\chi^2_{(\alpha/2),2r}} < \mu <$

  $\dfrac{2r\hat{\mu}}{\chi^2_{(1-\alpha/2),2r}}$ "
- **Page: 37, 4. Type II;** Replace " $\hat{\mu} = \dfrac{1}{n}Nt_r$ " with " $\hat{\mu} = \dfrac{1}{r}nt_r$ "
- **Page: 52, Example 1, 1., line 3;** Replace " $\mu(t) = \beta_0(1 - e^{\beta^{t_1}})$ " with
  " $\mu(t) = \beta_0(1 - e^{-\beta 1 t})$ "
- **Page: 52, (215);** Replace " $\mu`(t) = \beta_0\beta_1(1 - e^{-\beta^{t_1}})$ " with " $\mu`(t) = \beta_0\beta_1(1 - e^{-\beta_1 t})$ "
- **Page: 53, Example 2, line 7;** Replace " $\mu(t) = \beta_0(1 - e^{-\beta^{t_1)}})$ " with
  " $\mu(t) = \beta_0(1 - e^{-\beta_1 t})$ "
- **Page: 53, Example 2, line 8;** Replace " $10(1\text{-}e^{-0.1(10)})$ " with " $100(1\text{-}e^{-0.1(10)})$ "
- **Page: 53, Example 2, line 10;** Replace " $\mu(t) = \beta_0(1 - e^{-\beta^{t_1)}})$ " with
  " $\mu(t) = \beta_0(1 - e^{-\beta_1 t})$ "

- **Page: 53, line 17;** Replace "$\lambda_0 \exp[\theta\mu(t)]$" with "$\lambda_0 \exp[-\theta\mu(t)]$"
- **Page: 55, line 2;** Replace "3.33" with "0.476"
- **Page: 55, line 6;** Insert the word " (others)" between "Model" and "This"
- **Page: 57, line 20;** Insert "(Poisson Type)" after "Models"
- **Page: 58, line 27;** Replace "$[97,102]$" with "$[97-102\ ]$"
- **Page: 60, line 9;** Replace "$(1\text{-e}^{-\beta}t)^{-1}$" with " $(1\text{-e}^{-\beta t})^{-1}$"
- **Page: 72, 1.2(a);** Replace all + with *
- **Page: 72, 1.2(b), line 4;** Insert 95% between "find" and "approximate"
- **Page: 73, 1.6, line 2;** Replace "(when c = 1…)" with "(when d = 1….)"{
- **Page: 73, 1.6, line 3;** Replace "when c=2" with "when d=2"
- **Page: 73, 1.6, line 11;** Insert "N" before "= υ_0 = k"
- **Page: 75, 1.10, line 2;** Insert "Use 1.9 data" at the end of the sentence.
- **Page: 76, 1.17, line 5;** Omit the "(a)" as well as everything after the word "model".
- **Page: 76, 1.18;** Replace all + signs with *
- **Page: 76, 1.18, (a), line 3;** Replace "pumps" with "disks".
- **Page: 76, 1.18, (b);** Replace "initial n = 10" with "initial r = 10"; replace "stop at nth failure" with "stop at r failure"; replace "total of N = 20" with "total of n = 20"
- **Page: 77;** Omit paragraphs 1.20, 1.21 and 1.22
- **Page: 77;** Change 1.23 to 1.20, change 1.24 to 1.21 and change 1.25 to 1.22
- **Page: 81, Equation (6);** Replace $\dfrac{Y_{past}}{X_{past}}$ with $\dfrac{Y_{past}}{t_{past}}$
- **Page: 149, Security Meter Model Input Data, "Change" column;** Replace 2, 2, 24, 2 ,18, 76 with 0.2, 0.2, 0.24, 0.2, 0.18, 1.76
- **Page: 151, 3.5.1, line 20;** Replace "analysis are outline" with "analysis we outline"
- **Page: 151, 3.5.1, line 23;** Replace $[61-63]$ with $[61-63,65]$
- **Page: 152, (44);** Replace $\dfrac{\int_s^{t+s} u(x)dx}{n!}$ with $\dfrac{\left[\int_s^{t+s} u(x)dx\right]^n}{n!}$
- **Page: 152, 3.5.3;** Omit the first "**25**" and Replace "14, 32, 28, **25**, 25, 19, 24, 25, 22, 24" with "14, 32, 28, 25, 19, 24, 25, 22, 24"
- **Page: 153, 2, line 6;** Replace "antipiracy" with "anti-theft"
- **Page: 153, 2, line 10 & 11;** Omit the first "25" from "14, 32, 28, **25**, 25, 19…"
- **Page: 167, #65;** Replace "(Session 22:Risk), Lisbon, Portugal, August 2007" with "(Risk Assessment), Lisbon, Portugal, August 22-29, 2007"
- **Page; 168, line 3;** Replace "= 10/year" with " = 14/year"
- **Page: 169, 3.6;** Replace "Dependent" with "Nondisjoint"
- **Page: 169, 3.6, (a);** Replace "P(V$_2$) = 0.25" with "P(V$_2$) = 0.45"
- **Page: 169, 3.7, line 3;** Replace "3x3x3" with "3x3x2"
- **Page: 169, 3.8, line 3;** Replace "3x3x3" with "3x3x2"

- **Page: 173, line 5;** Replace "…intended service of for particular…" with "…intended service or particular…"
- **Page: 182, 4.1.4, line 2;** Remove the "3" from "weeks"
- **Page: 185, Table 4.1;** Add ",expense = $15000" after "..for Table 4.2" in the title.
- **Page: 185, Table 4.1, item#1;** Add "when c = $100, b = $200, a = $1200" after "=1.0"
- **Page: 185, Table 4.1, item#5;** Add "when c = $100, b = $200, a = $1200" after "level"
- **Page: 186, Table 4.2;** Replace existing table with the red ink additions
-

TABLE 4.2 Single Stage Stopping Rules S(.) = X* with Expense Budget = $15,000

		c = $100 b = $200	c = $100 b = $200	c = $100 b = $1000	c = $100 b = $200	c = $100 b = $200	Expense> $15,000
DR1	0	S(4)=38	S(2)=36				
100	0.5	S(100)=94	S(100)=94				$28800
200	0.8 (<u>107</u>)	S(169)=132	S(168)=132	$1284	$485	$1100	
200	0.9 (<u>121</u>)	S(169)=132	S(168)=1232	$2550	$1750	$1100	
DR2	0	S(3)=23	S(2)=23				
92	0.5	S(92)=52	S(92)=52				$19600
185	0.8 (<u>74</u>)	S(154)=90	S(153)=90	$1300	$500	$1100	
185	0.9 (<u>83</u>)	S(153)=90	S(153)=90	$2550	$1750	$1100	
DR3	0	S(8)=5	S(2)=2				
50	0.5	S(76)=39	S(74)=38				$15400
100	0.8 (<u>35</u>)	S(85)=43	S(84)=43	$1375	$575	$500	
100	0.9 (<u>40</u>)	S(85)=43	S(84)=43	$1633	$833	$500	
DR4	0	S(4)=19	S(2)=13				
100	*0.5*	S(101)=54	S(101)=54				$20900
200	0.8 (<u>50</u>)	S(187)=62	S(100)=54	$1875	$1075	$900	
200	0.9 (<u>57</u>)	S(171)=57	S(171)=57	$1466.7	$666.7	$300	
DR5	0	S(2)=4	S(2)=4				
1094	0.5	S(1094)=40	S(1094)=40				$117400
2176	0.8 (<u>37</u>)	S(100)=38	S(100)=38	$27088	$26288	$200700	
2176	0.9 (<u>41</u>)	S(2042)=42	S(2042)=42	$4625	$3825	$10500	

-
- **Page: 186, line 4;** Replace "at least 50% of the total failures…" with "at least 50% of the total test cases…"
- **Page: 186, bottom line;** "$202,300.00", should read " $202,700.00 "
- **Page: 200 and 203 Appendix 4C and figure 4C.5: strategy 1 & 2;** Strategy 1, replace "Total Covered **1**=38" with "Total Covered = 38"; Strategy 2, replace "Total Covered **3**= 45" with "Total Covered = 45"
- **Page: 203, Strategy 1 Cost Analysis;** Replace $685000.00 with $68500.00
- **Page: 227, line 5;** Insert "Volume 50, No.4 " before "pp.92-97" for Ref. 30
- **Page: 227, #47;,** change "N. Turkkan" to "F.K. Turkman"

- **Page: 229, Exer. 4.1;** Replace "Internal Data" with "DR Data".
- **Page: 229, Exer. 4.2, line 4;** Replace "product is okay following" with "product is safe following"
- **Page: 229, Exer. 4.3;** Insert "& 4.2" after "Exercise 4.1", remove "DR8.txt", replace "DR9.txt" with "DR8.txt" and replace "Internal Data" with "DR Data"
- **Page 229, Exer. 4.4;** Remove the letter "(a)", replace "Internal Data" with "T Data" and add "Take 50% for minimal coverage" after "c = \$1."
- **Page 229, Exer. 4.4;** Remove the entire (b) paragraph
- **Page 230, Exer. 4.5;** Replace "a>, b< and c<" with "a<, b> and c>"
- **Page: 230;** Add "4.7 Verify (or generate) table 4.2 by using MESAT-I application in the CD-ROM. Cite any disagreements, show and reason why?"
- **Page: 240;** Add at the bottom of page after "…this table." "See configurations I, II, III, IV on page 241 and FIGURE 5.1"
- **Page: 241, line 2;** Add "Config. I-IV in Table 5.1"
- **Page: 241, FIGURE 5.1;** Change "parallel" to "Parallel" in (b) and (c).
- **Page: 244, line 13;** Replace "10,000" with "1000"
- **Page: 245, line 2;** Remove "default"
- **Page: 245, line 8;** Replace "Chapter 6" with "Exercises 5.1 & 5.2"
- **Page: 245, line 9;** Replace "default" with "static"
- **Page: 248, graph;** Replace "Multi Nose Graph" with "Multi Node Graph"
- **Page 249, line 6 (5A.5);** Replace " $\lambda^a \exp(x_T \lambda)$ " by " $\lambda^a \exp(-x_T \lambda)$ "
- **Page: 253, Exercises, 5.1, line 2;** Replace "n = 5000" with "n = 100,000" and remove the "(a)" after "E5.1"
- **Page: 254, line 1;** Insert "is" between "generator" and "0"
- **Page: 256, Case 1: single; Replace** " R^* " & " R^{**} " with " r^* " & " r^{**} "
- **Page: 256, Case 1: single, E(r) = mean;** Replace "0.892568", "0.852496", "0.905617" and "0.900613" with "0.890985", "0.758064", "0.879397" and "0.897920"
- **Page: 256, Case 1: single;** Insert a space, "Simulation Results:" and a space between "E(r) = mean" and "7-node, 0.9 (0.7999)"
- **Page: 259, line 27;** Insert "." after "$[1]$"
- **Page 262, Figure 6.4 is incorrectly repeated for a second time later on page 262 as Figure 6.6, therefore should be replaced by the following correct one:**
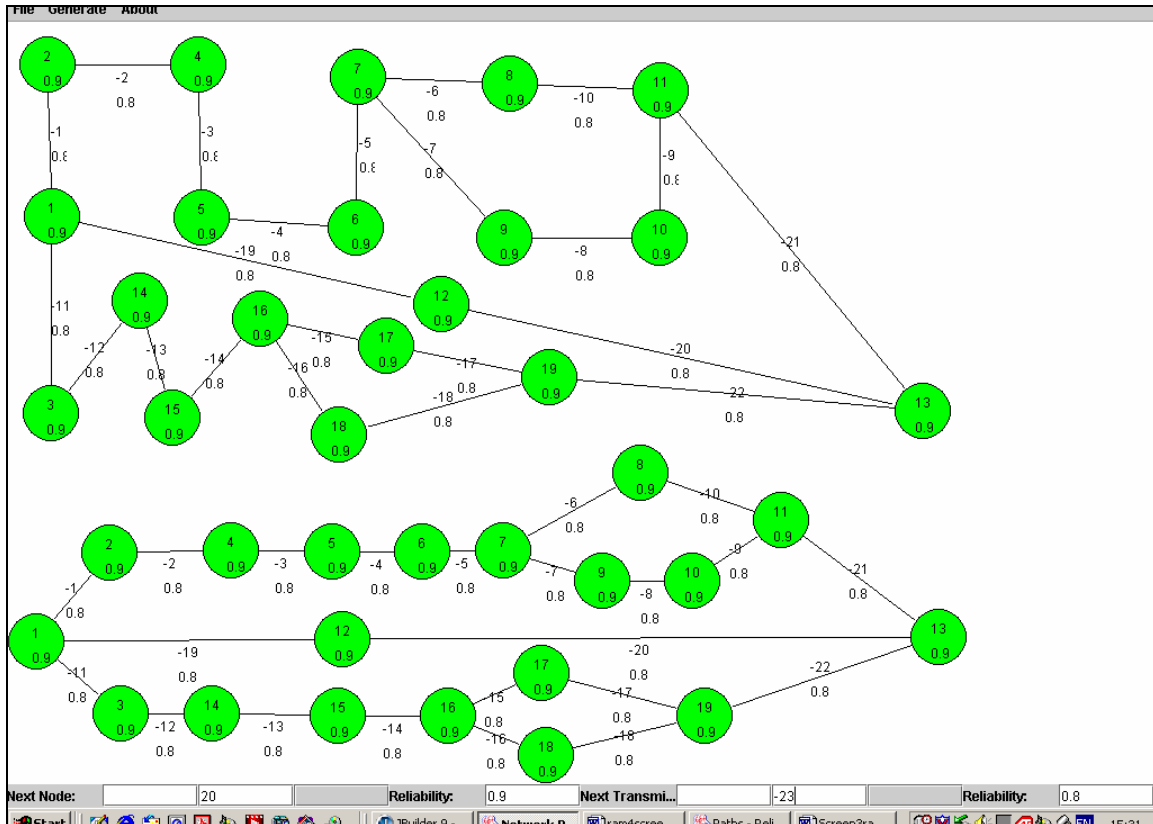
Figure 6.4 Topology for the Ding-Dong1 at the top section as reduced to the simpler network at the bottom section.

- **Page: 278, 6.8.3;** Insert " With Single Derated States" after "Simple Parallel-Series System "
- **Page: 278, FIGURE 6.24;** Replace " Simple parallel-series system with single derated state for s = 1, t = 4." With "Simple parallel-series system with single derated states."
- **Page: 279, FIGURE 6.25;** Replace "Simple parallel-series system with two derated states for s = 1, t = 4." With "Active parallel system with double derated states for 2 and 3."
- **Page: 279, 6.8.4;** Replace "Simple Parallel System" with "Active Parallel System With Double Derated States"
- **Page: 279, 6.8.4, line 1;** Replace "A simple parallel-series system" with "An active parallel system"
- **Page: 279, 6.8.5;** Replace "Combined System" with "Combined System With Multiple Derated States"
- **Page: 306, 6.6;** Replace "fully down (=0.2), and derated (= 0.1)" with "derated (= 0.2) and fully down (= 0.1)"
- **Page: 306, 6.7;** Replace "eight-node" with "8-node"
- **Page: 306, 6.9;** Replace "32-node" with "19-node" and "Figure E6.1" with "E5.1(b)"
- **Page: 307, 6.11; line 2;** Replace "Figures E6.1 and E6.10" with "E5.1(b)"

- **Page: 307, 6.11; line 5;** Add, "Perform 100,000 runs." at the end of the paragraph.
- **Page: 308, 6.12, line 2;** Replace "t = 9" with "t = 19" and "32-node" with "19-node"
- **Page: 308, 6.12, line 3;** Replace "Figure E6.1" with "Figure E5.1(b)"
- **Page: 308, 6.12, line 5;** Insert "by using the decoding button in CD-ROM" at the end.
- **Page: 308, 6.14, line 1;** Replace "page 273" with "page 274"