

Micha Hofri: *Analysis of Algorithms, Computational Methods & Mathematical Tools*.
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Errata & addenda

Last Update: August 22, 2008.
Stars mark the last-added item(s)

page	line	change
14	equation (12)	insert the factor $\binom{n(n-1)/2}{r}$ into the RHS
45	Exercise 18	Following the first relation, add: "This equation lets x_0 have arbitrary value, and we fix it at 1."
51	equation following (149)	replace ω^{-j} by ω^{-jr} .
53	9	remove $u_j = b_{1j}$,
56	8	replace $b_{d/n}$ by $b_{n/d}$
61	2 following (10)	replace $q_n - q_{n-1}$ by $q_n - q_{n-1}$
71	2 of soln. 9	$V[X] = Rn(N-R)(N-n)/N^2(N-1)$
77	-10	replace a_n by a_k
82	1st under Eq. (23)	replace (B-1.4) by (B-1.5)
90	equation (47)	replace the RHS by $1 + \sum_{i \geq 1} (uz)^i \frac{(1-z^m)(1-z^{m+1}) \dots (1-z^{m+i-1})}{(1-z)(1-z^2) \dots (1-z^i)}$.
95	6	replace d_i by d_1
96	2nd in Exercise 9	replace $2\lfloor n/2 \rfloor + 1$ by $2\lfloor n/2 \rfloor - 1$
99	penultimate in Ex. 18	add $/2^{n-k}$ after $(2n-k)!$
99	last in Exercise 18	replace n_0 by e_0
102	1st in Substitution	replace final 'an' by 'each'
107	equation (17)	replace $n+1$ by $n-1$
116	-10	add ')' before final comma
121	-5	replace $n!$ by $m!$
162	1 in Example 1	insert P_n , following 'to'
173	6 in Exercise 10	delete leading z in the expression
236	equation (11)	replace last term by $= \frac{(k-1)!}{x^k}$
239	first relation in (24)	replace $[1 - \Phi(\dots)]$ by $\Phi(b\sqrt{2/a})$
239	second relation in (24)	replace $\frac{b}{2a}$ by $\frac{b}{a}$
239	first relation in (25)	replace $[1 - \Phi(\dots)]$ by $\Phi(b\sqrt{2/a})$ and replace $\frac{b}{2a}$ by $\frac{b}{a}$
243	Line before Eq.(43)	replace $2m$ by $2m-1$
243	2nd line of Eq.(43)	replace $2m+1$ by $2m$, twice
245	2nd line of Eq.(53)	replace $2m+1$ by $2m$, thrice
245	Eq.(54)	replace $2m+1$ by $2m$, thrice
245	Last term in Eq.(57)	replace $2m+1$ by $2m$, and -2 by -1
245	Line following Eq.(55)	replace [63] by [61]
246	Last term in Eq.(58)	replace $2m+1$ by $2m$, and -2 by -1
248	-9	replace 'was' by 'were'
277	Eq.(49)+5	replace (38) by (9)
285	Exercise 22(b)	replace $(\ln(1-z)^{-1})^{-1}$ by $\ln(1-z)^{-1}$
325	5	replace γ_n by $\gamma_n/n!$

- 341 -9 replace (43)) by (43)
- 349 2nd line of Eq. (17) replace M_{1j} by M_{11}
- 350 3 replace M_{1j} by M_{j1}
- *350* last replace p^{2-n} by p^{n-2}
- 355 last line of the exercises make it last line of Exercise 9
- 362 equations (28) and (29) replace S_n by S_n/n
- 373 9 replace “by t ” by “by qt ”
- 392 12 add a comma following S_k
- 414 6. in Figure 8-1 replace (n) by (n-1)
- 451 16 add ‘)’ before period
- 457 14 replace final ‘a’ by ‘twice the’
- 457 15 replace ‘slightly over’ by ‘close to’
- 483 equation (11) replace the 2nd line by $-e^{-u}\beta(z, \lambda)[(1+u)\beta(z, \lambda) + u\beta_u(z, \lambda)]$.
- 485 equation (28),2nd line replace \leq by \geq
- 488 equation (46) replace $Knv(x)$ by $Kxv(x)$
- 489 6 add ‘)’ following $(\sigma(0))$
- 506 Exercise 5(b),2nd line replace \leq by \geq
- 550 12-13 replace ‘on the following page’ by ‘below’
- 567 (3.5) replace the relation as follows:
- $$\sum_{k \leq r} \binom{r-k}{m} \binom{s}{k-t} (-1)^k = (-1)^{r+m} \binom{s-m-1}{r-t-m}, \quad \text{integer } t, \quad \text{integers } r, m \geq 0. \quad (3.5)$$
- 569 (5.9) replace in denominator $(1-u)$ by $(1+u)$
- 569 (6.8) add the relation
- $$\frac{\Gamma(n+a)}{\Gamma(n+b)} = n^{a-b} \left(1 + \frac{(a-b)(a+b-1)}{2n} + O(n^{-2}) \right) \quad (6.8)$$
- 572 (5.4) add to the relation
- $$\sum_{k \geq 0} \langle k+m \rangle \binom{n+m}{k+m} (-1)^k = 0, \quad n > m \quad (5.4)$$
- 573 (5.13) add the relation
- $$\sum_k \langle k+m \rangle \binom{n-1}{k-1} \frac{k!}{n^k} = n^m \quad (5.13)$$
- 603 -9 replace \circ by III
- 613 Entry for ‘lacunary’ add page 254