

Errors and Corrections

Original Text

Corrected Text

Page 16, Line 1
from C from B

of C from B

Page 23, Line 2
 $H(p, q) = \frac{1}{2}p^2 + \sin(q)$

$H(p, q) = \frac{1}{2}p^2 - \cos(q)$

Page 73, Line 11
 $y(\widehat{x}_n)$

$\widehat{y}(x_n)$

Page 100, Line 11
move

more

Page 124, Figure 300(i), Third graph
 $\{[1, 2], [1, 3], [3, 4], [4, 5]\}$

$\{[1, 2], [1, 3], [3, 4], [3, 5]\}$

Page 128, Line 17
it can be seen that that

it can be seen that

Page 128, Line -5
 $k - r(\widehat{t})$

$k - r(\widehat{t})$

Page 137, Table 310(II), Line -8
 $5 \text{ } \Psi^{\dagger} 6 \text{ } \mathbf{f}^{(4)}(\mathbf{f}, \mathbf{f}, \mathbf{f}, \mathbf{f}) \text{ } f_{jkl}^i f^j f^k f_m^l f^m$

$5 \text{ } \Psi^{\dagger} 6 \text{ } \mathbf{f}^{(3)}(\mathbf{f}, \mathbf{f}, \mathbf{f}') \text{ } f_{jkl}^i f^j f^k f_m^l f^m$

Page 137, Table 310(II), Line -7
 $5 \text{ } \Psi^{\dagger} 4 \text{ } \mathbf{f}''(\mathbf{f}, \mathbf{f}'(\mathbf{f}, \mathbf{f})) \text{ } f_{jk}^i f^j f_{lm}^k f^l f^m$

$5 \text{ } \Psi^{\dagger} 4 \text{ } \mathbf{f}''(\mathbf{f}, \mathbf{f}''(\mathbf{f}, \mathbf{f})) \text{ } f_{jk}^i f^j f_{lm}^k f^l f^m$

Page 137, Table 310(II), Line -5
 $5 \text{ } \Psi^{\dagger} 3 \text{ } \mathbf{f}''(\mathbf{f}'\mathbf{f}, \mathbf{f}'\mathbf{f}) \text{ } f_{jk}^i f_k^j f_m^l f^m$

$5 \text{ } \Psi^{\dagger} 3 \text{ } \mathbf{f}''(\mathbf{f}'\mathbf{f}, \mathbf{f}'\mathbf{f}) \text{ } f_{jk}^i f_l^j f_m^l f^m$

Page 153, Line -17
 $\cdots hL \sum_{j=1}^s |b_i| \|Y_j - Z_j\|,$

$\cdots hL \sum_{j=1}^s |b_j| \|Y_j - Z_j\|,$

Page 160, Line 3
 $\Phi(t_1)$

$\Phi(t_3)$

Page 160, Figure 321(ii)
Replace the figure by the following:



Page 160, Line 5
 $\sum_i b_i c_j^{k-1} a_{ij}$

$$\sum_i b_i c_i^{k-1} a_{ij}$$

Page 160, Line 6
 $b_j c_j^{k-1}$

$$b_j$$

Page 164, Line 6
 six

five

Page 170, Line 5
 c

$$c_i$$

Page 170, Line 8
 c

$$c_i$$

Page 170, Line 8
 $\widehat{b}_i$

$$\widetilde{b}_i$$

Page 170, Line 13
 $\sum_{i,j=1}^s b_i \frac{c_i^{r(t)}}{\gamma(t)}$

$$\sum_{i=1}^s b_i \frac{c_i^{r(t)}}{\gamma(t)}$$

Page 170, line -6
 $\sum_{i=j}^s \widetilde{b}_j \chi_j$

$$\sum_{j=1}^s \widetilde{b}_j \chi_j$$

Page 174, 2nd table

0	$\frac{7}{90}$	0	...
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	$\frac{7}{90}$	0	...
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Page 174, 3rd table

$\frac{4}{5}$	$\frac{7}{30}$	$\frac{3}{5}$	$-\frac{1}{6}$	$\frac{2}{15}$	0	
	$\frac{1}{4}$	0	$\frac{125}{192}$	0	$-\frac{27}{64}$	$\frac{25}{48}$

$\frac{4}{5}$	$\frac{2}{25}$	$\frac{12}{25}$	$\frac{2}{15}$	$\frac{8}{75}$	0	
	$\frac{23}{192}$	0	$\frac{125}{192}$	0	$-\frac{27}{64}$	$\frac{125}{192}$

Page 176, Line 5,6
 $\sum_{j=1}^s$

$$\sum_{j=1}^7$$

Page 176, Line 10
 $\sum_{i=1,j}^7$

$$\sum_{i,j=1}^7$$

Page 177, Line -5

$$(c_i-c_6) \qquad (c_i-c_5)$$

Page 187, Line 16

$$\sum_{i=1}^s \sum_{j=1}^{s-1} b_i a_{ij} (1-c_j) \chi_j(t) \qquad \sum_{i=1}^s \sum_{j=1}^{s-1} b_i a_{ij} \chi_j(t)$$

Page 193, Line 18

together with a seventh \qquad together with a sixth

Page 197, Line -10

$$|h|\sum_{j=1}^s|a_{ij}|L||Y_j-\bar{Y}_j|| \qquad |h|max_{i=1}^s\sum_{j=1}^s|a_{ij}|L||Y_j-\bar{Y}_j||$$

Page 199, Line 1

$$k < n-1 \qquad k < n-2$$

Page 200, Line 7

$$(342j) \qquad (342i)$$

Page 201, Line 3

$$t^{k-1} \qquad \tau^{k-1}$$

Page 204, Line 8

$$(343l) \qquad \text{no (343l)}$$

Page 205, Line -10

polynomials \qquad polynomial

Page 225, Remark 354C

$$\{r\exp(i(j+\frac{1}{2})\pi/(p+1)):0\leq r\} \qquad \{r\exp(i(j+\frac{1}{2})\pi/(p+1)):0\leq r\}$$

Page 229, Line 12

$$\begin{aligned} Z &= \begin{bmatrix} hq(x_{n-1}+c_1) & 0 & \cdots & 0 \\ 0 & hq(x_{n-1}+c_1) & \cdots & 0 \\ \vdots & \vdots & & \vdots \\ 0 & 0 & \cdots & hq(x_{n-1}+c_s) \end{bmatrix} \qquad Z = \begin{bmatrix} hq(x_{n-1}+c_1h) & 0 & \cdots & 0 \\ 0 & hq(x_{n-1}+c_2h) & \cdots & 0 \\ \vdots & \vdots & & \vdots \\ 0 & 0 & \cdots & hq(x_{n-1}+c_sh) \end{bmatrix} \\ &= \text{diag}([hq(x_{n-1}+c_1) \quad hq(x_{n-1}+c_2) \quad \cdots \quad hq(x_{n-1}+c_s)]) \qquad = \text{diag}([hq(x_{n-1}+c_1h) \quad hq(x_{n-1}+c_2h) \quad \cdots \quad hq(x_{n-1}+c_sh)]) \end{aligned}$$

Page 270, Line 17

$$\widehat{E} \times \widehat{E} \qquad \widehat{V} \times \widehat{V}$$

Page 273, Line -10

$$\{1,2,\ldots,\widetilde{s}\}^n \qquad \{1,2,\ldots,\widetilde{s}\}$$

Page 310, Theorem 406D

A-stable consistent

A stable consistent

Page 333, Line 3

Adams-Bashforth as correcter

Adams-Moulton as corrector

Page 337, Line 4

$$\log\left(\frac{1+z}{1-z}\right)$$

$$\frac{2z}{1-z}$$

Page 337, Line 6

$$-\log\left(\frac{1-z}{1+z}\right)(1+z)^k\beta\left(\frac{1+z}{1-z}\right)$$

$$-\log\left(\frac{1+z}{1-z}\right)(1+z)^k\beta\left(\frac{1-z}{1+z}\right)$$

Page 351, Line 3

the a stepsize

a stepsize

Page 352, Second vector in (461e)

$$\begin{bmatrix} \vdots \\ \gamma_{p-1} \\ \gamma_{p-2} \end{bmatrix}$$

$$\begin{bmatrix} \vdots \\ \gamma_{p-1} \\ \gamma_p \end{bmatrix}$$

Page 360, Line -9

$$\frac{1}{2} \mid \frac{5}{12} \quad \frac{1}{3} \quad -\frac{1}{12}$$

$$\frac{1}{2} \mid \frac{5}{24} \quad \frac{1}{3} \quad -\frac{1}{24}$$

Page 375, Line 6

$$\widehat{y}_i^{[n-1]}$$

$$\widehat{y}^{[n-1]}$$

Page 379, Line 2

$$\sum_{k=1}^s(\delta_{jk}-h_0L|a_{jk})\eta_k\leq \ldots$$

$$\sum_{k=1}^s(\delta_{jk}-h_0L|a_{jk}|)\eta_k\leq \ldots$$

Page 379, Line 4

$$||\widetilde{Y}_j-Y_j||\leq h\bar{\epsilon}_j\max_{k=1}^r||\ldots$$

$$||\widetilde{Y}_j-Y_j||\leq h\bar{\epsilon}_j\max_{k=1}^s||\ldots$$

Page 380, Theorem 515D

A-stable and consistent ...

A stable and consistent ...

Page 390, Line -6

free θ

free θ

Page 398, Line 11

... for which $P(w,z)$ factorizes...

...for which $\Phi(w,z)$ factorizes...

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