Errata for Discrete Fractional Calculus as of July 31, 2018:

CHAPTER 1

(1) Page 13 replace "1.44" by "1.35" (but 1.44 is okay)

(2) Page 24, line 15 replace second "cos" by "sin"

(3) Page 28, line 1- replace second "d" by "d-1"

(4) Page 49, line 1

$$e_{\frac{\alpha}{t}}(t,a)\cos_{\frac{\beta}{1+\alpha}}(t,a), \quad e_{\frac{\alpha}{t}}(t,a)\sin_{\frac{\beta}{1+\alpha}}(t,a)$$

(5) Page 49, line 9- should be "$(t\Delta - \alpha_1)(t\Delta - \alpha_2)\cdots(t\Delta - \alpha_n)y = 0$"

(6) Page 50, line 1 replace "$\mathbb{R}_n$" to "$\mathbb{R}^n$"

CHAPTER 2

(1) Page 101, line 6 This formula is incorrect

(2) Page 102, line 6 should be "$= -\frac{\nu\Gamma(t-s)}{\Gamma(\nu+1)\Gamma(t-s-\nu+1)}$"

(3) Page 106, line 2- replace "$\mathbb{N}_0$" by "$\mathbb{N}_{\nu-N}$"

(4) Page 107, line 2 replace "$\mathbb{N}_0$" by "$\mathbb{N}_{\nu-N}$"

(5) Page 107, line 4 replace "$\mathbb{N}_0$" by "$\mathbb{N}_{\nu-N}$"

(6) Page 119, line 7- replace "$h_{\nu-1}$" by "$h_{-\nu-1}$"

CHAPTER 3

(1) Page 152, line 12 The last sentence on this line should appear right after Definition 3.4

(2) Page 156, line 10- omit second ":"

(3) Page 157, Between line 6 and line 7 put "(ix) $E_p(t,s) = \frac{1}{E_p(s,t)}, \quad t \in \mathbb{N}_a$."

(4) Page 158, line 5- replace lower limit to "t+1" and upper limit to "r"

(5) Page 160, line 5 and 6 it should be "$1 - p(\tau)$"

(6) Page 161, line 7 it should be "$\alpha \boxdot (\beta \boxdot p)$"

(7) Page 163, line 5- replace "g" by "q"

(8) Page 164, line 7 omit "where $t_0 \in \mathbb{N}_{a+1}$ and $A, B \in \mathbb{R}$"

(9) Page 173, line 12 $\int_a^t E_p(s,a) \nabla s = \frac{1}{p} E_p(s,a)\big|_a^t$

(10) Page 174, line 2- replace "$\frac{1}{4}$" by "$\frac{3}{4}$"

(11) Page 177, line 4 the lower limit on the integral shold be "a"

(12) Page 177, line 15 replace "$\ominus 3$" by "$\boxminus 3$"

(13) Page 178 Lines 12, 13, 14 replace "$\ominus 3$" by "$\boxminus 3$"

(14) Page 192, line 14 replace "0" by "f(a+1)"

CHAPTER 4

(1) Page 290, line 1- replace "$n-1$" by "n"

(2) Page 292, line 13 replace every "α" that appears as an exponent including falling exponents that have an "α" in them by "ν"

(3) Page 292, line 14 replace second "α" by "ν"

(4) Page 292, line 2- replace second "α" by "ν"

(5) Page 293, thoughout this page replace every "α" that appears as an exponent including falling exponents that have an 'α" in them by "ν"

(6) Page 293, line 3 replace "$t \geq s$ by "$t \leq s$"

CHAPTER 5

(1)

CHAPTER 6

(1)

CHAPTER 7

(1)