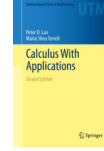


Calculus with Applications

Peter D. Lax and Maria Shea Terrell



This is a list of errors, last modified 01/28/2018.

Special thanks to Kai-Liang Lin and other colleagues working on the Chinese edition to be published in 2018 by Science Press.

p.43	1.49 (d), (e) and (f)	change $\sum_{n=0}^{\infty}$ to $\sum_{n=1}^{\infty}$
p.104	line -9	change $\left \frac{\frac{x^{n+1}}{n+1}}{\frac{x^{n+1}}{n+1}} \right $ to $\left \frac{\frac{x^{n+1}}{n+1}}{\frac{x^n}{n}} \right $ and change $\frac{n+1}{n+1}$ to $\frac{n}{n+1}$
p.105	line -8	change $\frac{ x_0 - a }{ x - a }$ to $\frac{ x - a }{ x_0 - a }$
p.207	change line 1 to change line 2 to change line 3 to line 6	$g'(y) = \sum_{k=1}^{\infty} \frac{\ell(\ell-1)\cdots(\ell-k+1)}{k!} k y^{k-1}$ $= \ell \sum_{k=1}^{\infty} \binom{\ell-1}{k-1} y^{k-1} = \ell \sum_{k=0}^{\infty} \binom{\ell-1}{k} y^k$ Multiply $g'(y)$ by y and add $g'(y)$ to get $(1+y)g'(y) = g'(y) + yg'(y) = \ell \sum_{k=0}^{\infty} \binom{\ell-1}{k} y^k + \ell \sum_{k=1}^{\infty} \binom{\ell-1}{k-1} y^k$ $= \ell + \ell \sum_{k=1}^{\infty} \left(\binom{\ell-1}{k} + \binom{\ell-1}{k-1} \right) y^k$ $= \ell + \ell \sum_{k=1}^{\infty} \binom{\ell}{k} y^k = \ell \sum_{k=0}^{\infty} \binom{\ell}{k} y^k = \ell g(y)$ change $\frac{\ell(1+y)^{\ell-1}}{(1+y)^{\ell}}$ to $\frac{(1+y)^{\ell-1}}{(1+y)^{\ell}}$
p.280	Problem 6.22 (b)	change $> \frac{1}{x}$ to $> \frac{1}{x+1}$
p.355	Theorem 9.2	change “where n is 0 or 1” to “where n is 0 or -1”
p.394	line 1 line 3	delete “which is the overdamped Case II” delete “in Case I”
p.468	line -1	change $e^{-k + \frac{k^2}{m+k} x^2}$ to $e^{(-k + \frac{k^2}{m+k}) x^2}$
p.470	lines 4 and 5 lines 7 and 10 line 11	change $p - q$ to $q - p$ delete the minus signs before the integrals delete the minus sign before the first integral
p.479	line 4	change $2 = d \log$ to $\log 2 = d \log$
p.480	line -9	change the last two x to t
p.482	line 13 line 16	add parenthesis) at the end of part (c) change $\frac{1}{4}(2e^x e^{-x}) - 2(-e^x e^{-x})$ to $\frac{1}{4}(e^{2x} + 2e^x e^{-x} + e^{-2x}) - \frac{1}{4}(e^{2x} - 2e^x e^{-x} + e^{-2x}) = \frac{1}{2} + \frac{1}{2}$
p.485	line -1	change 33.01 to 303.01 and change 30.01 to 300.01
p.497	line -13	change $\lim 1$ to $\lim_{N \rightarrow \infty} 1$
p.498	line 5	change $\frac{1}{18} A$ to $\frac{1}{\sqrt{18}} A$

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