

| 頁 | 箇所 | 誤 | 正 |
|----|--------------|--|--|
| 2 | 図1.1 | 横軸 x | 横軸 t |
| 2 | 例1.3 | $y'' = -\omega^2 a \sin \alpha \omega t$ | $y'' = -\omega^2 a \sin \omega t$ |
| 11 | 例1.14 2行目 | $y = x_0 \cos at$ | $y = y_0 \cos at$ |
| 14 | 例2.1 | t の関数 $f(x)$ | t の関数 $f(t)$ |
| 15 | 例2.3 | $y(0) = 0$ | $y(0) = 1$ |
| 18 | 例2.6 4行目 | $2y^{-\frac{1}{2}}t = t + c$ | $-2y^{-\frac{1}{2}} = t + c$ |
| 23 | 式(2.9) | $u'x + u = 1 - u$ | $u't + u = 1 - u$ |
| 25 | 式(2.13) | $y(t) = c(t)e^{-\int a(t)dx}$ | $y(t) = c(t)e^{-\int a(t)dt}$ |
| 25 | 式(2.14) | $y' = c'e^{-\int adx} - ace^{-\int adx}$ | $y' = c'e^{-\int adt} - ace^{-\int adt}$ |
| 29 | 例2.11 6行目 | v'_c | $v'_c(t)$ |
| 32 | 例2.13 6行目 | $u' - 5t^{-1} = 0$ | $u' - 5t^{-1}u = 0$ |
| 41 | 下5行目 | existence thorem | existence theorem |
| 43 | 下11行目 | … <u>を</u> ことを, 基本解と呼ぶ。次の議論をまとめると, … | … <u>の</u> ことを, 基本解と呼ぶ。上の議論をまとめると, … |
| 45 | 3行目 | 連列方程式 | 連立方程式 |
| 46 | 11行目 | $\lambda = \frac{p}{2}$ | $\lambda = -\frac{p}{2}$ |
| 66 | 例4.2 2行目 | $\lambda^2 + 2\lambda + 2 = 0$ | $\lambda^2 + 2\lambda + 3 = 0$ |
| 69 | 例4.4 下3行目 | 非斉次方程式の一般解 | 斉次解 |
| 70 | 下4行目 | $A = \frac{1}{-2(1+i3)} = -\frac{1-i3}{20}$ | $A = \frac{1}{-2(1-i3)} = -\frac{1+i3}{20}$ |
| 70 | 下2行目 | $y_p = -\frac{1-i3}{20}e^{(-1+i2)t} = e^{-t} - \frac{1-i3}{20}e^{i2t}$ | $y_p = -\frac{1+i3}{20}e^{(-1+i2)t} = e^{-t} \left(-\frac{1+i3}{20}e^{i2t} \right)$ |
| 71 | 1,2行目 | $\text{Re}[y_p] = -\frac{1}{20}e^{-t}\text{Re}[(1-i3)(\cos 2t + i\sin 2t)]$ $= -\frac{1}{20}e^{-t}(\cos 2t + 3\sin 2t)$ | $\text{Re}[y_p] = -\frac{1}{20}e^{-t}\text{Re}[(1+i3)(\cos 2t + i\sin 2t)]$ $= -\frac{1}{20}e^{-t}(\cos 2t - 3\sin 2t)$ |
| 71 | 5行目 | $y = c_1e^{-2t} + c_2e^{-3t} - \frac{1}{20}e^{-t}(\cos 2t + 3\sin 2t)$ | $y = c_1e^{-2t} + c_2e^{-3t} - \frac{1}{20}e^{-t}(\cos 2t - 3\sin 2t)$ |
| 78 | 下6,3,2行目 | $2e^{-5t}$ | $2e^{-t}$ |
| 79 | 1行目 | $3e^{-5t}$ | $3e^{-t}$ |

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| 81 | 1行目 | e^{i3t} | e^{it} |
| 81 | 2行目 | e^{i3t} | 削除 |
| 81 | 定理4.4 証明1行目 | $P(D)g(t)$ | $P(D)e^{at}g(t)$ |
| 83 | 例4.16 10行目 | $-\frac{1}{8}\cos 3t + \frac{3}{32}\sin 3t$ | $-\frac{1}{8}t\cos 3t + \frac{3}{32}\sin 3t$ |
| 84 | 例4.17 | $\begin{aligned} \frac{1}{D^2 + 3D + 2}e^{-2t} &= \frac{1}{D+2}\left(\frac{1}{D+1}e^{-2t}\right) \\ &= \frac{1}{D+2}\left(\frac{1}{-2-1}e^{-2t}\right) \\ &= -\frac{1}{3}\frac{1}{D+2}e^{-2t} \\ &= -\frac{1}{3}e^{-2t}\frac{1}{D} \\ &= -\frac{1}{3}te^{2t} \end{aligned}$ | $\begin{aligned} \frac{1}{D^2 + 3D + 2}e^{-2t} &= \frac{1}{D+2}\left(\frac{1}{D+1}e^{-2t}\right) \\ &= \frac{1}{D+2}\left(\frac{1}{-2+1}e^{-2t}\right) \\ &= -\frac{1}{D+2}e^{-2t} \\ &= -e^{-2t}\frac{1}{D} \\ &= -te^{-2t} \end{aligned}$ |
| 106 | 例5.10 | $B^{-1}A\begin{bmatrix} 0 & -1 \\ -3 & -2 \end{bmatrix}$ | $B^{-1}A\begin{bmatrix} 0 & -1 \\ 3 & -2 \end{bmatrix}$ |
| 115 | 式(6.29) | $-\frac{1}{2}$ | $\frac{1}{2}$ |
| 117 | 下3行目 | $\frac{1}{s} - \frac{s + \frac{1}{2}}{\left(s + \frac{1}{4}\right)^2} + \frac{3}{16}$ | $\frac{1}{s} - \frac{s + \frac{1}{2}}{\left(s + \frac{1}{4}\right)^2} + \frac{3}{16}$ |
| 117 | 下2行目 | $-\frac{1}{\sqrt{3}}\frac{s + \frac{\sqrt{3}}{4}}{\left(s + \frac{1}{4}\right)^2} + \frac{3}{16}$ | $-\frac{1}{\sqrt{3}}\frac{\frac{\sqrt{3}}{4}}{\left(s + \frac{1}{4}\right)^2} + \frac{3}{16}$ |
| 124 | 練習A.4(1) 略解 | $-\frac{1}{2}(1 + i3)(\cos 2t + i \sin 2t)$ | $-\frac{1}{20}(\cos 2t - 3 \sin 2t)$ |
| 131 | 1章【4】(2) | $c_1 = \frac{1}{2}, c_2 = -\frac{1 + \sqrt{3}}{4}$ | $c_1 = \frac{3}{2}, c_2 = \frac{3 + \sqrt{3}}{4}$ |
| 132 | 2章【3】(4) | $y = \frac{1}{2}e^{-t} + \frac{1}{2}(2t + 1)e^{-3t}$ | $y = \frac{1}{4}e^{-t} - \frac{1}{4}(2t + 1)e^{-3t}$ |
| 133 | 4章【2】(5) | $y = c_1e^{-t}\cos 2t + c_2e^{-t}\sin 2t + \frac{1}{10}(2\cos 2t + \sin 2t)$ | $y = c_1e^{-t}\cos 2t + c_2e^{-t}\sin 2t + \frac{1}{17}(\cos 2t + 4\sin 2t)$ |
| | 4章【4】(3) | $y = c_1\cos t + c_2\sin t + \frac{3}{13}e^{-3t}(2\cos t + 3\sin t)$ | $y = c_1\cos t + c_2\sin t + \frac{1}{39}e^{-3t}(2\cos t + 3\sin t)$ |
| | 5章【2】(1) | $y = c_1e^{-t} + c_2\cos t + c_3\sin t - t(\cos t + \sin t) + 3$ | $y = c_1e^{-t} + c_2\cos t + c_3\sin t - \frac{1}{2}t(\cos t + \sin t) + 3$ |
| | 5章【2】(2) | $y = c_1\cos\sqrt{2}t + c_2\sin\sqrt{2}t + c_3t\cos\sqrt{2}t + c_4t\sin\sqrt{2}t + \frac{1}{4}(\cos 2t + \sin 2t)$ | $y = c_1\cos\sqrt{2}t + c_2t\cos\sqrt{2}t + c_3\sin\sqrt{2}t + c_4t\sin\sqrt{2}t + \cos t$ |
| 134 | 5章【7】 | $\begin{bmatrix} x \\ y \end{bmatrix} = c_1e^{-3t}\begin{bmatrix} 1 \\ 3 \end{bmatrix} + c_2e^t\begin{bmatrix} 1 \\ -1 \end{bmatrix}$ | $\begin{bmatrix} x \\ y \end{bmatrix} = c_1e^{-t}\left(\begin{bmatrix} 1 \\ 1 \end{bmatrix}\cos\sqrt{2}t + \begin{bmatrix} 0 \\ \sqrt{2} \end{bmatrix}\sin\sqrt{2}t\right) + c_2e^{-t}\left(\begin{bmatrix} 1 \\ 1 \end{bmatrix}\sin\sqrt{2}t - \begin{bmatrix} 0 \\ \sqrt{2} \end{bmatrix}\cos\sqrt{2}t\right)$ |
| | 6章【3】(1) | $y = \frac{1}{25}(34e^{-4t} + 9\cos t + 12\sin t)u(t)$ | $y = \frac{1}{25}(34e^{-4t} - 9\cos 3t + 12\sin 3t)u(t)$ |
| | 6章【3】(2) | $y = e^{-t}(\cos t + 3e^{-t}\sin t)u(t)$ | $y = e^{-t}(\cos t + 3\sin t)u(t)$ |