

Sichuan University

Chengdu, 610207, Sichuan, P.R.China Http://www.scu.edu.cn

 $| \frac{| \frac{|}{|} |}{|} | \frac{|}{|} |$ $| \frac{|}$

$$|t, (y'=s,h,y)|$$
 $|t, (y'=s,h,y)|$
 $|t, (y'=s$

二方(t, y) =5my在 actab, -60cycm是判蓄表连续

」y'=5my在[a,6]上存在1/住-解

(b)
$$y'(t) = \frac{2e^{t-a} \tan(y_0/2)}{[+1e^{t-a} \tan(y_0/2)]^2}$$

-! sin(zarcton X) = sinzb= 2 sin 0 cos 0 = 2x/(1+X2)

$$= \frac{2e^{t-a} \tan(y_a/2)}{1+te^{t-a} \tan(y_a/2)]^2}$$

又等YCay=Ya 公yCt)是初值问题的解



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137+ 6.3

$$W_{2,1} = \frac{5}{4} + \frac{1}{4} \cdot (\frac{5}{4} - \frac{1}{4}) = \frac{3}{2}$$

$$w_{2,2} = -\frac{1}{4} + \frac{1}{4} \left(-\frac{1}{4} - \frac{1}{4} \right) = -\frac{3}{8}$$

$$w_{3} = \frac{3}{2} + \frac{1}{4} (\frac{3}{2} - \frac{1}{8}) = \frac{5t}{32}$$

$$w_{3} = \frac{3}{2} + \frac{1}{4} (\frac{3}{2} - \frac{1}{8}) = \frac{1}{32} \qquad w_{3,2} = -\frac{1}{8} + \frac{1}{4} (-\frac{3}{2} - \frac{1}{8}) = -\frac{37}{32}$$

$$w_{4}, 1 = \frac{56}{32} + \frac{1}{4} \left(\frac{55}{32} - \frac{37}{32} \right) = \frac{119}{64}$$

$$w_{4}, 1 = \frac{56}{32} + \frac{1}{4} (\frac{55}{32} - \frac{37}{32}) = \frac{119}{64}$$
 $w_{4}, 2 = -\frac{37}{32} + \frac{7}{4} (-\frac{55}{32} - \frac{37}{32}) = -\frac{15}{8}$



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$$W_{3,1} = \frac{375}{246} + \frac{1}{8} \left[\frac{215}{246} - \frac{25}{32} + \left(\frac{375}{246} + \frac{1}{246} - \frac{2375}{32} \right) + \left(\frac{25}{32} + \frac{1}{4} \left(-\frac{375}{246} - \frac{25}{32} \right) \right) = \frac{1625}{1024}$$

$$w_{3,2} = \frac{25}{32} + \frac{1}{8} \left[\frac{375}{256} + \frac{25}{4} \left(\frac{375}{256} + \frac{25}{4} \left(\frac{375}{32} + \frac{25}{4} \left(-\frac{375}{32} + \frac{25}{32} \right) \right) \right] = \frac{5875}{4386}$$



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B282 6.4

Wo=

3(d)
$$w_1 = 1 + \frac{1}{24} (5 - 04 - 1 + 25(0 + \frac{1}{8})^4) + 5 = 5 + \frac{1}{4} w_i$$
 $5_2 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_3 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$ $5_4 = 5 + (1 + \frac{1}{8})^4 (w_i + \frac{1}{8} s_i)$



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P311	7-1		
3.	(y"=-4y	(a)	y(t)= (, 6052t+(25)n2t
	(y"=-4y		

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$$\begin{cases} y(a) = 4 = y_a \\ y(x) = c_1 = y_b \end{cases} \Rightarrow y_a = y_b$$

い当日の時、りころは

(d)当0=10村, b=至4寸