



Stiltian, ... Ans (1, ... (n) =0 (n) + (x), ··· (n) = 0 1かり分かりかりから 一个介绍的方程的自的无力的多件。 MI(40) = MIO ; --- / Mn(40) = Mno 一个们发出为维(且的知为自)是 (d/7/ = f, (t, x,,-, xh) 1/2 = 12 (t, x1, ..., xh) Axn at = fn (+/x/1,..., xn) (x, (+0) = x10 , ..., xn) 二、结性为程间的一般和途 () 线性方程组的物性开(式 > ax1 = Ou(t) x, +...+ ain(t) 7n+ filt) Axu = anillaitut annitixntfntl) $\frac{d^{3}x}{a_{1}+a_{1}}+a_{1}$ を カニアノ ガニグノ・・・・ カ (かり= カカ

 $\begin{cases}
\frac{\partial X}{\partial t} = X_2 \\
\frac{\partial X}{\partial t} = X_3
\end{cases}$ at = An $\frac{\partial x^n}{\partial t} = -\alpha_n H \eta_1 - \alpha_{n-1}(t) \chi_2 - \dots - \alpha_n(t) \chi_n + f(t)$ (2) 函数向量和函数矩阵 X1(4) n维逊的量 nt)= $A'(A) = \begin{cases} a_{11}(t) & a_{12}(t) & \dots & a_{1n}(t) \\ a'_{21}(t) & a_{22}(t) & \dots & a_{2n}(t) \end{cases}$ $A'(A) = \begin{cases} a'_{21}(t) & a'_{22}(t) & \dots & a'_{2n}(t) \\ \vdots & \vdots & \vdots & \vdots \\ a'_{n1}(t) & a'_{n2}(t) & \dots & a'_{nn}(t) \end{cases}$ $\chi'(4) = \begin{cases} \chi'(4) \\ \chi'(4) \\ \vdots \\ \chi'(4) \end{cases}$ $\int_{to}^{t} \chi(s) ds = \begin{cases} \int_{to}^{t} \chi(s) ds \\ \int_{to}^{t} \chi(s) ds \end{cases}$ Sto A(s) ds = Sto ani(s) ds -- Sto ann (s) ds

Sto ani(s) ds -- Sto ann (s) ds (3) 微分分发(目的)向量表示 > ax1 = 011(t) x1 + 11+ an(t) xn+ filt) dry = anilla tut annitiant full)

文の大学は 1/(to) = 1/1 1/2 (to) = 1/2 -.. Nn(to) = 1/2 ie A(1) = (aij (1)) nxn, x= (x1, x2, -1, xn) T $F(t) = (f_1(t), f_2(t), \dots f_n(t))$ $\chi_0 = (\chi_1, \chi_2, \ldots, \chi_n)^T$ $\chi_{\overline{c}} = \chi_{\overline{c}} = \chi_{\overline{c}} = \chi_{\overline{c}} = \chi_{\overline{c}} = \chi_{\overline{c}}$ 初猶多件: 从(+0) = 10 部外代级为方维色: 若下的于0分配=1(t)x+F(t)。 对应的齐次微为方程的 at = Actix 第一声。线性微分为维烟的的一般理论: 一、微分为程但的的存在作性定理 定理 3.1: 设AH)、产H)在 [a,b]上连停、1则初值in)完 (at = A(t) x+ F(t) 7(to) = xo to ([a,b] 在(9,6) 内石在时一角 水= 以(+) 推论:设AHI在[a.h)连续,例初循问教 (0x = A(t) x n(to) = 0 to (Ta, b) 在(a,b)1月有在唯一部 g(1)=0即零解结节几解 二、线性齐次方程组解的级的。二十一个 定理》、级对(t)、加(4)、小加(t)是齐州部性方程的分别 1211户的线性的台里(ini(+) 加兴斯 Ta) (1/1 (1) +. (2/2) (1) +...+ (m/m/t) = 0 5/2 刚然此级运勤向量在工上的性利兵,否刚积为借户了

到312年中生代安义大心之
的群要到别准测:设有八正数向量
$\chi_{1}(t) = ($
$\chi_{1}(t) = \left(\begin{array}{c} \chi_{1}(t) \\ \chi_{2}(t) \end{array} \right) \left(\begin{array}{c} \chi_{1}(t) \\ \chi_{2}(t) \end{array} \right) \left(\begin{array}{c} \chi_{1}(t) \\ \chi_{2}(t) \\ \chi_{3}(t) \end{array} \right)$
$\left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \end{array} \right \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda_{n} \\ \lambda \left \begin{array}{c} \lambda_{n} \\ \lambda_{n} \\ \lambda \left \lambda_{$
(1) 11 (1) / M11 (1) / Min (4)
Mn1(1) Mnn(1)
为这些迅致的堂姐的剧斯基代到刊



