$$= -\chi'_0 + S[-\chi_0 + S\chi(S)]$$

$$= S^2 \chi(S) - \chi'_0 - S\chi_0$$

は[水物的]= $S^n \chi(S) - \chi_0^{(n+1)} - S\chi_0^{(n+2)} - \dots - S^n \chi_0$ ななななるの数(4.32)中の方程(英地作 Loplane 数段得

$$F(s) = S^{n} \chi(s) - \chi_{0}^{(n-1)} - S \chi_{0}^{(n-2)} - \dots - S^{n-1} \chi_{0}$$

$$+ Q_{n-1} \left[S^{n-1} \chi(s) - \chi_{0}^{(n-2)} - S \chi_{0}^{(n-2)} - \dots - S^{n-2} \chi_{0} \right]$$

$$+ \dots + Q_{1} \left[S \chi(s) - \chi_{0} \right] + Q_{0} \chi(s)$$

Bp X(s) (s"+ an s"+ ... + ais+a) Als)

$$= F(s) + \chi_{o} \left(s^{m1} + Q_{m1} s^{m2} + ... + Q_{1} \right)$$

$$+ \chi_{o}^{1} \left(s^{m2} + Q_{m1} s^{m3} + ... + Q_{2} \right)$$

$$+ ... + \chi_{o}^{(m1)}$$

$$+ ... + \chi_{o}^{(m1)}$$

$$+ ... + \chi_{o}^{(m1)}$$

$$+ ... + \chi_{o}^{(m1)}$$

成 $A(s) \chi(s) = F(s) + B(s) = \chi(s) = \frac{F(s) + B(s)}{A(s)}$ 发动 $\chi(s) = \frac{F(s) + B(s)}{A(s)}$

例3: 水"+2x"+ x=et, x(1)=x(1)=0,

$$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{2} \cdot \frac{1}{3} \cdot \frac{1}{1} \cdot \frac{1}{3} \cdot \frac{1$$

$$\frac{32}{52} \chi(s) = \frac{b}{20} \left[\frac{0}{0(s_{+}^{2}a^{2})} - \frac{s_{-}^{2}a^{2}}{(s_{+}^{2}a^{2})^{2}} \right] + \frac{\chi_{0}^{1}}{0} \frac{0}{s_{+}^{2}a^{2}} + \chi_{0}^{1} \frac{0}{s_{+}^{2}a^{2}}$$

$$\frac{1}{52} \frac{1}{32} \chi(t) = \frac{b}{202} \sin at - \frac{b}{20} \cos at + \frac{\chi_{0}^{1}}{0} \sin at + \chi_{0}^{1} \sin at$$

$$+ \chi_{0} \cos at$$