Lidi + 1 (ii-iz)dt + R(ii-iz) + - fidt =0 4, di + = 1 (is-is)+= 92-9,)+R(q-q)+=0 》机械系统运动方程. m, x, + k2(x,-x)+b(x,-x)+k, x,=0

 $\frac{4.7.6}{2.5} = \frac{1}{1.0} =$ 

by (x,-y) + k, (x,-x,)=0 by (y-x,)+ k y=0

⇒ k · ( ½, - ×, ) + k · (上 ( ½ ( ×-× · ) + × · ) ≥ 0 € 由 0 · ② 维 和 纸 系 统

V. (Xols) - X.(s)).S + K, (F. (Xols) - X.(s)) + S. X.(s)
$= \frac{\sum_{k=1}^{\infty} \sum_{k=1}^{\infty} b_{2}k_{1}s+k_{2}k_{2}}{k_{1}b_{2}s+k_{3}b_{3}s}$
X,15) K, b, S+K, K, b, S

5.9.1

$$\frac{C_{7} = np 16}{220} = \frac{2 \times 468}{27 \times 1} = 149$$

$$C_{6} = \frac{C_{7}}{955} = 15.6$$

$$E_{a} = C_{E} \, \bar{Q} \cdot \mathcal{N} = 15.6 \times 1.03 \times 10^{-2} \times 1500$$

$$= \frac{P_{N}}{I_{N}} = \frac{24110}{I_{N}}$$

5.9.3

(1) 
$$I_f = \frac{110}{220} = 0.5A$$

$$E_{an} = U_{N} - I_{an} \times R_{a}$$
  
= 110 - 69.5 × 0.08 = 104.441v)

Ten= 9.55 CE IN Ig =9.55 × Un-laiRa x la = 9.55 x 110-69.5 x 69.5 = 48 (N·m) ]= = - 10% = 78% 5.9.5 117 Tow = 9.55 x 10 =9.55 × 395 =3.77 m.m) (2) 7 = 9.55 × PN+Po PeN = 9.55 × PN+Po  $= 9.55 \times 6 \times 10^{3} + 395$ =61 (N·m)

137 Pen = P	+ Pa = 6395(w)
14) / = -	PN
)~ f	ent Parat Parf
= 85.	78%
	the second secon

C, dH = (Q-Q,) dt Q=0.  $C_2 dH_2 = (Q, -Q_2) dt$  $Q_2 = \frac{H_2 - 0}{R_2} = \frac{H_2}{R_2}$  $\frac{C_1 \cdot dH_1}{dt} = -Q_1 = \frac{H_2 - H_1}{R_1}$  6.7.2  $C_1 \frac{dh_1}{dt} = 9-9$  $p = R = \frac{h_1 - 0}{q_1} = \frac{h_1}{R}$ C2 dh2 = 91-92  $I + R_1 = \frac{h_2 - 0}{g}, g_2 = \frac{h_2}{R}$  $\Rightarrow C, \frac{dh_i}{dt} = \frac{g_{i-h_i}}{R_i} \Rightarrow C_i R_i \frac{dq_i}{dt} + q_i = q$ C, dh2 = h1 -hv | C2R2 de +92 = 9, => ( C.R, du + 1

6.7.4 C, dh, = 9-9, 其中P,= hi-hi
979;= hj-hi
R1 = 1,-hi=9,-R1 C, dhi = 9,-92 # R2 = h2 = 7 %= - 12 dh - R dl2 => ( C, dh, =9 h, -h)  $C_2 \frac{dh_2}{dt} = \frac{h_1 - h_2}{R_1} - \frac{h_2}{R_2}$ [C, dh, + h, -h, = 9 = C, (Redie + R, di) +9, =9 Ce dhe + hi-he + he -0 => R1P2C1C2 dies + (R1C1+R2C2+R2C1) dr + 92=9 => R1P2C1C2 dies + (R1C1+R2C2+R2C1) dr + 92=9