Example 5.13

Q

Current i distance h.

$$a(s) = \frac{-280 \cdot 14}{S^3 + 100S^2 - 981S - 9810S}$$

Poles -100 $31.32 - 31.32$ in stable

 $T = 0.01$ $7 \ge 14$ $a_1 \ge 12 = (1-\frac{1}{2}) \ge \frac{1}{2} = \frac{1}{2}$

Solution

 $a(s) = z^{-1} = \frac{(-3.7209 \times 60^{-1} - 1.1873 \times 60^{-2} - 2.2197 \times 60^{-2})}{[-2.46682^{-1} + 1.77218^{-2} - 0.36778]}$
 $= z^{-1} = \frac{-3.7209 \times 60^{-1} \times (142.93778^{-1}) \times (140.263987)}{(-1.38782^{-1}) \times (1-0.36778^{-1})}$
 $= z^{-1} = \frac{B}{A}$
 $A = A^{3}A^{3}$
 $A = A^{3}A^{3}$
 $A = (1-0.73112^{-1}) \times (1-0.36778^{-1})$
 $A^{3} = (1-0.73112^{-1}) \times (1-0.36778^{-1})$
 $A^{3} = (1-0.73112^{-1}) \times (1-0.36778^{-1})$

B- B9B6

$$B^{9} = -3.7207 \times 0^{3} (1+2.9377 \times 0^{3})$$

$$B^{b} = (1+0.2633 \times 0^{3})$$

$$A^{b}R_{1} + Z^{b}B^{b}S_{1} = \phi_{0}$$

$$\phi_{0}(2) = [-1.82^{-1} + 0.817 \times 0.09]$$

$$2 = [-1.82^{-1} + 0.9192^{-2}]$$

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$$\frac{B^{b}T_{1}}{A^{b}R_{1}+2^{-h}B^{b}S_{1}}=\frac{Br}{\phi_{c_{1}}}$$