Tablica 2

Przepustowości układów impulsowych

Lp	$K_{(s)}$	$K_I^*(e^s,\varepsilon);\ 0\leqslant\varepsilon<\gamma$	$K_{II}^*(e^s,\varepsilon);\ \gamma\leqslant\varepsilon<1$	$K_\delta^*(e^s,\varepsilon);\ 0<\varepsilon<1$
1	$\frac{1}{ST_1+1}$	$k(e^{-\beta(1-\gamma)}-e^{-\beta})\,e^{-\beta\varepsilon}\frac{1}{e^s-e^{-\beta}}$ $\beta=\frac{T}{T_1}.$	$k(e^{\beta\gamma}-1)\,e^{-\beta\varepsilon}\frac{e^s}{e^s-e^{-\beta}};$ $\beta=\frac{T}{T_1}.$	$k\beta\gamma e^{-\beta\varepsilon}\frac{e^s}{e^s-e^{-\beta}};$ $\beta=\frac{T}{T_1}.$
2	$\frac{S}{ST_1+1}$	$k_1e^{-\beta\varepsilon}\frac{e^s-e^{-\beta(1-\gamma)}}{e^s-e^{-\beta}};$ $k_1=\frac{k}{T_1};\ \beta=\frac{T}{T_1}.$	$k_1e^{-\beta\varepsilon}\frac{1-e^{\beta\gamma}}{e^s-{}^{-\beta}};$ $k_1=\frac{k}{T_1};\ \beta=\frac{T}{T_1}.$	$-k_1\beta\gamma e^{-\beta\varepsilon}\frac{1}{e^s-e^{-\beta}};$ $k_1=\frac{k}{T_1};\ \beta=\frac{T}{T_1}.$
3	$\frac{1}{(ST_1+1)(ST_2+1)}$	$k+\frac{k\beta_2}{\beta_1-\beta_2}\cdot\frac{e^s-e^{-\beta_1(1-\gamma)}}{e^s-e^{-\beta_1}}e^{-\beta_1\varepsilon}+\frac{k\beta_1}{\beta_2-\beta_1}\cdot\frac{e^s-e^{-\beta_2(1-\gamma)}}{e^s-e^{-\beta_2}}e^{-\beta_2\varepsilon}$ $\beta_1=\frac{T}{T_1};\ \beta_2=\frac{T}{T_2}.$	$k\frac{\beta_2}{\beta_1-\beta_2}\cdot\frac{1-e^{\beta_1\gamma}}{e^s-e^{-\beta_1}}e^se^{-\beta_1\varepsilon}+k\frac{\beta_1}{\beta_1-\beta_2}\cdot\frac{1-e^{\beta_2\gamma}}{e^s-e^{-\beta_2}}e^se^{-\beta_2\varepsilon}$ $\beta_1=\frac{T}{T_1};\ \beta_2=\frac{T}{T_2}.$	$-k\frac{\beta_1\beta_2\gamma}{\beta_1-\beta_2}\cdot\frac{e^se^{-\beta_1\varepsilon}}{e^s-e^{-\beta_1}}-k\frac{\beta_1\beta_2\gamma}{\beta_2-\beta_1}\cdot\frac{e^se^{-\beta_2\varepsilon}}{e^s-e^{-\beta_2}};$ $\beta_1=\frac{T}{T_1};\ \beta_2=\frac{T}{T_2}.$
4	$\frac{1}{ST_s(ST_1+1)(ST_2+1)}$	$-k\beta_s\left(\frac{1}{\beta_1}+\frac{1}{\beta_2}\right)+k\beta_s\left(\varepsilon+\frac{\gamma}{e^s-1}\right)+k\frac{\beta_2\beta_s}{\beta_1(\beta_2-\beta_1)}\cdot\frac{1-e^{-\beta_1(1-\gamma)}}{e^s-e^{-\beta_1}}e^{-\beta_1\varepsilon}+$ $+k\frac{\beta_1\beta_s}{\beta_2(\beta_1-\beta_2)}\cdot\frac{1-e^{-\beta_2(1-\gamma)}}{e^s-e^{-\beta_2}}e^{-\beta\varepsilon};$ $\beta_1=\frac{T}{T_1};\ \beta_2=\frac{T}{T_2};\ \beta_s=\frac{T}{T_s}.$	$k\beta_s\frac{\gamma e^s}{e^s-1}+k\frac{\beta_2\beta_s}{\beta_1(\beta_2-\beta_1)}\cdot\frac{(1-e^{\beta_1})^\gamma e^s}{e^s-e^{-\beta_1}}e^{-\beta_1\varepsilon}+$ $+k\frac{\beta_1\beta_s}{\beta_2(\beta_1-\beta_2)}\cdot\frac{(1-e^{\beta_2})^\gamma e^s}{e^s-e^{-\beta_2}}e^{-\beta_2\varepsilon};$ $\beta_1=\frac{T}{T_1};\ \beta_2=\frac{T}{T_2};\ \beta_s=\frac{T}{T_s}.$	$k\beta_s\frac{\gamma e^s}{e^s-1}-k\gamma\frac{s}{\beta_2-\beta_1}\cdot\frac{e^s}{e^s-e^{-\beta_1}}e^{-\beta_1\varepsilon}+$ $-k\gamma\frac{\beta_1\beta_s}{\beta_1-\beta_2}\cdot\frac{e^s}{e^s-e^{-\beta_2}}e^{-\beta_2\varepsilon};$ $\beta_1=\frac{T}{T_1};\ \beta_2=\frac{T}{T_2};\ \beta_s=\frac{T}{T_s}.$
5	$\frac{k_1}{ST_s(ST_1+1)}$	$-k_0\frac{\beta_s}{\beta}+k_0\frac{\beta_s}{\beta}e^{-\beta\varepsilon}\frac{e^s-e^{-\beta(1-\gamma)}}{e^s-e^{-\beta}}+k_0\beta_s\left(\varepsilon+\frac{\gamma}{e^s-1}\right);$ $k_0=kk_1;\ \beta=\frac{T}{T_1};\ \beta_s=\frac{T}{T_s}.$	$k_0\beta_s\frac{\gamma e^s}{e^s-1}-k_0\frac{\beta_s}{\beta}(e^{\gamma\beta}-1)\,e^{-\beta\varepsilon}\frac{e^s}{e^s-e^{-\beta}};$ $k_0=kk_1;\ \beta=\frac{T}{T_1};\ \beta_s=\frac{T}{T_s}.$	$k_0\beta_s\frac{\gamma\varepsilon^s}{e^s-1}-k_0\beta_s\gamma e^{-\beta\varepsilon}\frac{e^s}{e^s-e};$ $k_0=kk_1;\ \beta=\frac{T}{T_1};\ \beta_s=\frac{T}{T_s}.$