$[K, L, T] = get\_fod (G, key)$

key: 0) frequency response   1) transfer function

$G = opt\_app (\tilde{G}, no, do, delay)$

no : order of numerator

do : order of denominator

delay :   0) without delay   1) with delay

$[G_c, H, K_p, T_i, T_d] = ziegler\_nic (key, vars)$

key: 1) P   2) PI   3) PID   4) PI_D

vars: $[K \quad T_c \quad N]$ $[K \quad L \quad T \quad N]$ $[K \quad T_c \quad r_b \quad P_b \quad N]$

                                                            modified ZN

$[G_c, H, K_p, T_i, T_d, beta] = rziegler\_nic (vars)$

vars: $[K \quad L \quad T \quad N \quad k_c \quad T_c]$

$[G_c, H, K_p, T_i, T_d] = chr\_pid (key, typ, vars)$

key: 1) P   2) PI   3) PID   4) PI-D

typ: 1) set point   2) disturbance

vars: $[K \quad L \quad T \quad N \quad O_s]$ 0) no overshoot   1) %20 overshoot

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$[G_c, K_p, T_i, T_d] = wjcpid (vars)$

vars: $[K \quad L \quad T \quad N]$

(1)

$[G_c\text{-}Sys, H\text{-}Sys, K_p, T_i, T_d] = \text{cohen-pid}(key, typ, vars)$

key : 1) P 2) PI 3) PID 4) PI-D 5) PD (if typ = 2)

typ : 1) CC 2) CC revisited

vars : [K L T N]

$[G_c\text{-}Sys, H\text{-}Sys, K_p, T_i, T_d] = \text{astrom-hagglund}(key, typ, vars)$

key : 1) PI 2) PID

typ : 1) AH 2) frequency based AH

vars : [K L T N] (if typ = 1)

[K K_c T_c N] (if typ = 2)

$[G_c, K_p, T_i, T_d] = \text{opt-pid}(key, typ, vars)$

key : 2) PI 3) PID 4) PI-D

typ : 1) set point 2) disturbance

vars : [K L T N C] → 1) ISE 2) ISTE 3) IST^2E

(2)

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