PITOPS-TFI software reads process data from any DCS/PLC data historian and develops dynamic models (transfer functions). These models help to improve plant efficiency and increase plant profits.

PITOPS-TFI is the only software in the world that can successfully identify transfer function models using complete closed-loop data without intrusive step tests, even in the presence of noise and unmeasured disturbances.

System identification is a complex area but PITOPS makes it simple. PITOPS works in time domain, so no complicated math is needed. No need for Laplace domain! In just 5 clicks, you can identify transfer function dynamic models even with multiple inputs.

PITOPS-TFI can be used to improve MPC Performance. It can help to improve DMC/RMPCT Models using Closed-Loop data with the controller active. PITOPS is the only tool in the market for MPC maintenance, offering a novel, new and unmatched method.

PITOPS-TFI needs less data compared to all competitor technologies. It works with fast processes in milli/micro seconds timeframe and with very slow processes settling in several hours. PITOPS is a practical, handy tool designed to benefit both industrial control rooms and also colleges, universities. The ability to analyze plant data or research data in just minutes opens various new amazing opportunities for process control scheme development, improving PID tuning and developing APC [advanced process control]. The APC can be designed and implemented inside the plant’s existing DCS or even PLC using dynamic models developed using PITOPS.

Contact: PiControl Solutions LLC
Email: Info@PiControlSolutions.com
Web: www.PiControlSolutions.com
USA: (832)495-6436
PITOPS-PID is PID and APC tuning simulation and optimization software. PITOPS improves PID control; it reduces oscillations and speeds up sluggish control. It can be used to design and implement APC (advanced process control) inside a plant’s DCS or PLC. PITOPS-PID is the only software you will need inside the control room for PID control improvements and APC design and maintenance. PITOPS is also useful in colleges and universities for teaching semester courses and for process control research.

PITOPS has saved many plants anywhere from $50K to $2 million by way of improved PID control quality and APC installed inside the plant’s DCS!!!

New Algorithm! Novel Breakthrough Technology!

PITOPS-PID has been used in numerous plants and universities worldwide. It has been used in chemical, petrochemical, polymer, electric power, paper, oil-refining and many other industrial manufacturing plants worldwide. PITOPS-PID tuning optimization is not based on heuristics and rules like in IMC, Lambda etc. but PITOPS optimizes PID tuning and APC parameters for a custom simulation matching exactly the real process inside the real plant DCS. You configure typical setpoint changes, typical noise and disturbances as seen in the real DCS PID trends and then PITOPS optimizes PID tuning and APC parameters for that custom simulation exactly matching your real control loop and process dynamics. This functionality is a real breakthrough and a major invention and produces results superior to any competitor technology.

FUNCTIONS:
- Single/Slave PID
- Cascade PID
- Feedforward
- Ratio Control
- Model-based control
- Dead-time compensation
- Constraint Override
- Control valve stiction
- Nonlinear control

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Superior to all known methods – superior to IMC (Internal Model Control), Lambda, Ziegler-Nichols, Cohen-Coon etc.