

Structured Text (ST) Programming

```
IF #ControlValve1_Closed = false AND #ControlValve1_Open = True THEN  
    #Pump_Start:= TRUE;  
ELSIF #ControlValve1_Closed = True OR #ControlValve1_Open = False THEN  
    #Pump_Start:= False;  
END_IF;
```



Structured Text St Programming Guide Book

Tom Mejer Antonsen



Structured Text St Programming Guide Book:

PLC Controls with Structured Text (ST), V3 Tom Mejer Antonsen, 2020-06-30 This book gives an introduction to the programming language Structured Text ST which is used in Programmable Logic Controllers PLC. The book can be used for all types of PLC brands including Siemens Structured Control Language SCL and Programmable Automation Controllers PAC. This 3rd edition has been updated and expanded with many of the suggestions and questions that readers and students have come up with, including the desire for many more illustrations and program examples. CONTENTS: Background, benefits and challenges of ST programming; Syntax; data types; best practice and basic ST programming; IF THEN ELSE CASE FOR CTU; TON; STRUCT; ENUM; ARRAY; STRING; Guide for best practice naming; troubleshooting; test and program structure; Sequencer and code split up into functions and function blocks; FIFO; RND; sorting; scaling; toggle; simulation; signals and digital filter; Tank controls; conveyor belts; adaptive pump algorithm and robot control; PLC program structure for pumping stations; 3D car park and car wash; Examples From Ladder Diagram to ST programming. The book contains more than 150 PLC code examples with a focus on learning how to write robust, readable and structured code. The book systematically describes basic programming, including advice and practical examples based on the author's extensive industrial experience. The author is Bachelor of Science in Electrical Engineering B.Sc. E.E. and has 25 years experience in specification, development, programming and supplying complex control solutions and supervision systems. The author is Assistant Professor and teaches PLC programming at Dania Academy, a higher education institution in Randers, Denmark.

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