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controller realized on the basis of siemens s7 300 plc and programmed in ladder diagram and had an application in the sewage disposal electric control system of hulunbeier dongneng chemical plant motion controllers an evolution in high performance and reliability delivered by the next generation of motion control melsec iq r series melsec iq f series melsec q series melsec l series embedded type servo system controller single axis motion controller network related products this paper presents the design and validation of a fuzzy logic controller implemented with an industrial programmable logic controller plc the chosen device belongs to the s7 1200 series of siemens whereas the code has been developed in ladder diagram language using the software tia portal industrial automation refers to the use of technology and control systems to automate industrial processes the importance of industrial automation has increased significantly in recent years as businesses seek to improve productivity and efficiency reduce costs and remain competitive in a rapidly changing marketplace the software package s7 300 fuzzy control offers a complete concept for creating control functions to be used in solving automation tasks the control block function block is already prepared in its full range of performance and with all algorithms for configuration and assigning parameters

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