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PLCs and controlling a system. Many PLCs and their configurations are available, even from a single vendor. But, in each of these there are common components and concepts. Guidelines for automating manufacturing systems with PLCs (on photo: S7-1200 PLC during the modernization exchange Simatic S5 to S7; credit: iautomatyka.pl)

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eBook: Automating Manufacturing Systems; with PLCs Overview Programmable Logic Controllers (PLCs) are the predominant tool for controlling industrial and specialty systems.

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Traditional industrial automation field controllers have typically remained closed proprietary computers, analogous to the long obsolete computer mainframe and minicomputer era. The impact and integration of the powerful new platforms are fundamental to enabling the digitalization of manufacturing systems in order to be competitive.

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IV. AUTOMATED CLINKER COOLING SYSTEM BLOCK DIAGRAM Fig. 5. Automated clinker cooling system using PLC. V. LADDER DIAGRAM Fig. 6. Ladder diagram of clinker cooling system. Table 1: Inputs and outputs of proposed work. VI. CONCLUSION PLC based automated Clinker cooling system used in cement manufacturing Industry is the application of PLC.

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## **Automating Manufacturing Systems**

Industrial automation can be roughly defined as the use of technology and control systems (Industrial PC, PLC, PAC, etc) to automate industrial processes to improve on quality and output without the need for significant human intervention. Control systems are used to dictate the automatic operation of integrated technology and other equipment.

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Additional materials and updates for this work will be available at Kailash Kathat (kailashkathat@yahoo.com ). Automating Manufacturing Systems 2

## **Automating Manufacturing Systems 2 With PLCs**

Logical and sequential control is preferred for system design. These systems are more stable, and often lower cost. Most continuous systems can be controlled logically. But, some times we will encounter a system that must be controlled continuously. When this occurs the control system design becomes more demanding. When improperly controlled, continuous systems may be [...]

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