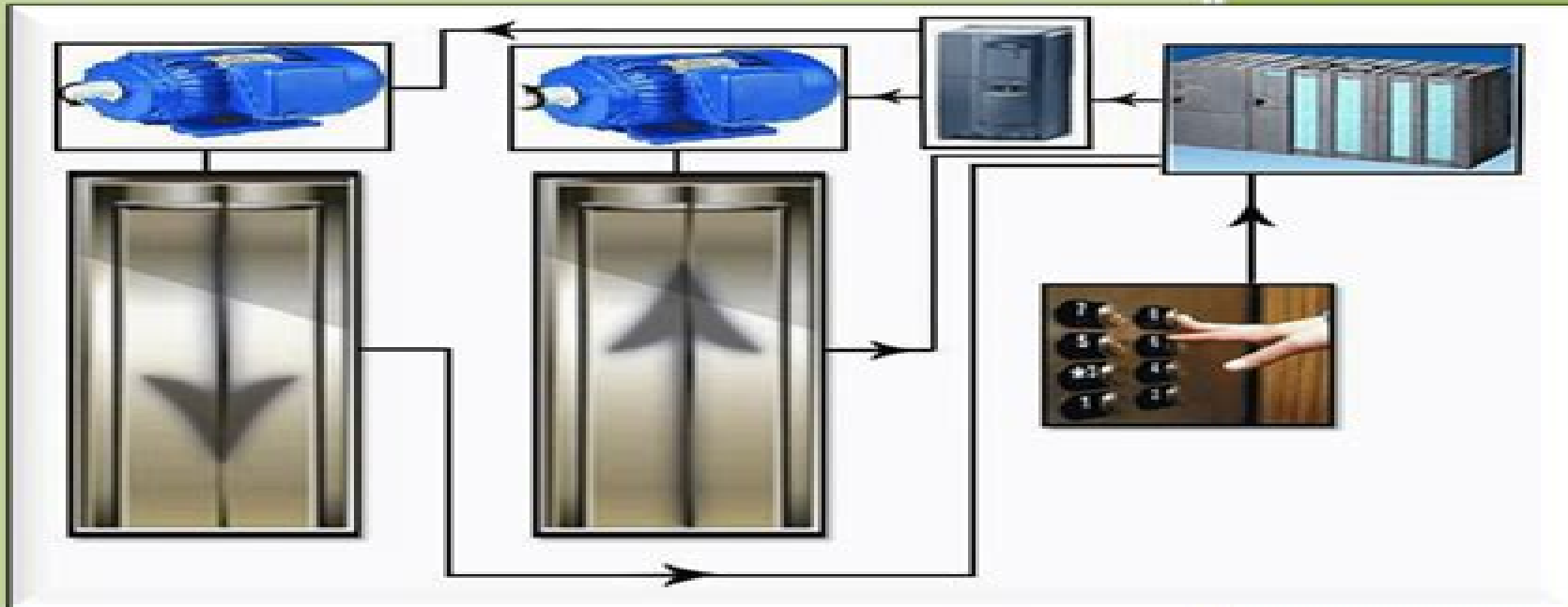


PLC-Based Smart Elevator Control System



PLC-Based Smart Elevator
Control System

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Application Of Plc For Elevator Control System Ijca

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Application Of Plc For Elevator Control System Ijca:

Basic PLC and Elevator Control System Md. Lutfar Rahman, 2014-11-01 With the continuous development of urban construction the elevator in today's society has a wide range of applications Elevator in the building as a complex operation of the vertical transport has been inextricably linked with people's daily life Nowadays every developing and developed country are using elevator to rise in the high stored building In this book I therefore wanted to give focus on using programmable logic controller to control the elevator as PLCs make the easy operation to control complex circuit Even though the design was limited to four levels some suggestions are given later as to how to extend the elevator system to more than four levels The design was compromised of Control Request Selection of PLC hardware Hardware Design Software design and Monitoring and Debug Ladder logic program is used for four floors control system and I have been discussing details about it on Appendix section The SIEMENS S7 200 Programmable Logic Controller EM226 with 24 inputs and 16 outputs has been used I think the use of PLCs in elevator control system makes things easier for the design and maintenance engineer This is a great advantage in Automation Industry *Elevator System Using Plc* Sandeep Sahu, Inder Pal Singh, Saurya Jyoti Banik, 2013 The purpose of doing this project is to design and implement a three floor elevator control system Each floor was to have its own illuminated push button to call the elevator to a demanded floor The elevator door was to be simulated with the use of a 12VDC bench top mounted motor that opened stayed open and reversed after ten seconds at each floor after being called A 12V DC motor was used to hoist the elevator and IR sensors were used to indicate when the elevator was at the floor in position to open The entire system included a master start stop circuit to ensure that the operation could be completely shut down for emergencies or repair The final aspect of this experiment was to intelligently organize the ladder logic to make troubleshooting easier To do this all of the subroutine jumps were placed in the second ladder and the actual subroutines in its respective ladder *The PLC Workbook* Keith Clements-Jewery, W. Jeffcoat, 1996 The book provides an invaluable guide to the practical application of programmable logic controllers in machine and equipment control Only a minimal prior knowledge of machine control electronics or computers is assumed the reader is lead by means of simple explanations worked examples and practical exercises from the rudiments of control system components to a reasonable level of PLC competency

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