

Control and stabilization of motor speed using Psoc

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Abstract: In the context of the increasingly advanced semiconductor technology, the application of PSoC (Programmable System-on-Chip) in motor speed control has become an important trend. This topic focuses on researching and designing a motor speed control system based on PSoC with the aim of improving motor operational efficiency and flexibility. The methodology combines theory with experimentation, providing a hardware-software integrated solution that optimizes the control process. The expected result is an efficient motor speed control system that is easy to implement and widely applicable in various industrial fields.

Keywords: PSOC, Motor Speed Control, Hardware-Software Integration