

A Study of DC Motor Drives with Parallel Speed and Current Loop Configuration

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Abstract: This paper introduces a new type of DC motor drive with parallel speed and current loop configuration using single-chip microcomputer. Compared to traditional cascaded loop scheme, this configuration has faster dynamic response and is easy to design and adjustment. This paper also discusses the principle, features and the implementation of control strategy of this system in detail. The results of experiment show that this system has good performance and is of great value to practical application.