

# Experimental Verification of the Resolver Dynamic Model and Control Designs

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## Abstract

Resolver is an absolute angle measurement and is mounted on the motor shaft to get the motor's absolute angular position. This study proposes an equivalent circuit of the resolver. The transfer function of the resolver is proposed. Furthermore, the frequency response of the resolver is measured by a dynamic signal analyzer to obtain the adequate frequency of resolver's reference signal. Test results are presented to validate the performances of the resolver.

Keyword : resolver; angular position; frequency response