



# **Design and Development of Five Phase Permanent Magnet BLDC Motor: An Experimental Research on Multiphase PMSBLDC Motor for Low Power and High Torque Applications**

*M. A. Inayathullaah*

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The rapid growth of technologies in power electronics popularizes conventional three phase Permanent Magnet Brush Less Direct Current (PMBLDC) motor drives among all industrial drive applications due to increasing demand for energy saving. It suffers from low torque to weight ratio in low power applications. A multiphase PMBLDC machine refers to a motor having more than three phases. This has attracted increased importance in recent years due to their high torque to weight, fault tolerance capability and high reliability. This work covers the design procedure, stage by stage development, design verification by simulation and different control techniques for five phase PMBLDC motor drive in detail with illustrations. The results indicate that the five phase PMBLDC develops high torque with low power compared to a conventional three phase PMBLDC motor of same volume (D/L ratio). The experimental analysis presented in this book should be especially useful to students, researchers, engineers alike who are involved in the understanding of design process, manufacturing, and control of PMBLDC motor drive.

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