

Slotless Brushless DC Machine Design for Electro-Mechanical Batteries

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Abstract— Electro-Mechanical Batteries have important advantages compared with chemical batteries, especially in Low Earth Orbit satellites applications. High speed, slotless, external rotor, brushless DC machines are proposed and used in these systems as Motor/Generator. Proper material and structure for space applications are introduced, a simplified analytic design method is given for this type of machines in this paper. finite element-based simulations are used to confirm the design process and show less than 6% error in theoretical design.

Keywords— brushless machines; electromechanical; energy storage; flywheel

I. INTRODUCTION

Flywheel energy storage systems or Electro-Mechanical Batteries (EMBs) are introduced by Maryland University and NASA [1] in 1970s. Recently, they are most commonly used in Low Earth Orbit (LEO) satellites. Nano/micro satellites are usually included in LEO satellites, which rotate around the earth from some minutes to a few hours. Although the development of chemical batteries technology, the most critical part of these satellites, is their energy storage system, their life is limited by fast charge/discharge rating in such applications [2].

Rotational kinetic energy is stored in a high-speed flywheel in EMBs. The advantages of EMBs are presented in [3]. Unlimited charge/discharge cycle as well as the satellite lifetime, higher efficiency, higher energy density, higher discharge depths and thermal independency. The most important part of an EMB is the electrical machine, which is used as Motor/Generator for energy conversion. Permanent Magnet (PM) machines are mostly used in EMBs because of having high torque to weight ratio, low rotor losses, high efficiency and brushless ness. In comparison with Synchronous Permanent Magnet machines, brushless DC (BLDC) machines can produce more torque by the same mass and volume. So, BLDC machines are recommended by NASA for space applications [3].

From another point of view, slotless PM machines have some advantages over slotted PM machines. Lower stator losses and no cogging torque can be mentioned as their most important privileges. So, slotless PM machines are suggested for high-speed applications [4, 5]. Fig. 1 shows Structure for

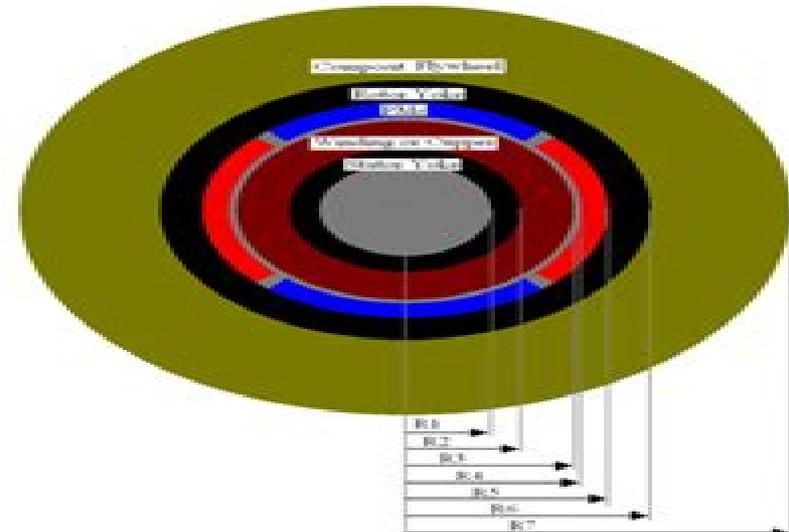


Figure 1. Structure of an EMB: a hollow cylinder with centered external rotor electrical machine.

micro-satellite EMB's. The effective air gap in slotless machines includes air gap in addition to copper thickness. The large air-gap causes magnetic flux weakening in this kind of machines. Therefore, in high power machines they would not be the best choice because of non-optimal mass and volume. However, in low power applications in which efficiency is important, like micro-satellite EMBs, the slotless machines are preferred to the slotted ones. In [6, 7], some analytical models were presented but they were too complex. In this paper, a simple design method will be presented by assuming proper approximation for air-gap magnetic flux density. This approximation causes less than 7% error in the design process

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