

## Design Of Rotating Electrical Machines 2nd Direct Textbook

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### **Design Of Rotating Electrical Machines**

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Design comparison of two rotating electrical machines for 42V electric power steering Gerard Aroquiadassou<sup>1</sup>, Humberto Henao<sup>1</sup>, Member IEEE, Vincent Lanfranchi<sup>2</sup>, Franck Betin<sup>1</sup>, Member IEEE, Babak Nahidmobarakeh<sup>1</sup>, Member IEEE, Gerard-Andre Capolino<sup>1</sup>, Fellow IEEE, Jean- Marie Biedinger<sup>2</sup>, Guy Friedrich<sup>2</sup> <sup>1</sup> University of Picardie Jules Verne - Department of Electrical Engineering

## **Design Comparison of Two Rotating Electrical Machines for ...**

Chapter 7 constitutes the core of the book dealing with the design process of a rotating electrical machine on the basis of the previous chapters. This design procedure is applied to asynchronous motors, because they are the most frequently encountered motor type in industry; however, the procedure is also applicable to other machine types.

## **Design Process and Properties of Rotating Electrical Machines**

Rotating electrical machine consists of a stator, rotor and the air gap between them. Stator and rotor has windings . The rotor is installed into the stem, and the stem connects to the motor and any other loads. The windings are there to carry the electrical

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current that generates magnetic fields for the electrical load.

## **What is rotating electric machine - Student Circuit**

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In simplified terms applicable to heteropolar rotating electrical machines (Figure 2.17) the instantaneous e.m.f. due to rate of change of linkage resulting from the motion at speed  $u$  of an  $N$ -turn full-pitch coil of effective length  $l$  is  $e = 2NBlu$ , where  $B$  is the flux density in which the coil sides move at the instant considered.

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