

## The Induction Machines Design Handbook Second Edition Electric Power Engineering Series

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There are machines available to operate from three phase or single phase electrical input. In this module we will be discussing the three phase induction machine. Single phase machines are restricted to small power levels. 2 The Rotating Magnetic Field The principle of operation of the induction machine is based on the generation of a rotating

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1860. The knowledge was ripe for the invention of the induction machine which has two fathers: Galileo Ferraris (1885) and Nicola Tesla (1886). Their induction machines are shown in Figure 1.1 and Figure 1.2. Figure 1.1 Ferrari's induction motor (1885) Figure 1.2 Tesla's induction motor (1886)

### **Chapter 1 INDUCTION MACHINES: AN INTRODUCTION**

The handbook approaches the machine description from the perspective of a machine user (e.g. developers of electrical drive systems). Qualitative statements are avoided explicitly since the performance of an electric motor depends strongly on the respective application purpose, electromagnetic design and control setups.

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Get this from a library! The induction machines design handbook. [I Boldea; S A Nasar] -- Developments in power electronics and digital control have made the rugged, low-cost, high-performance induction machine the popular choice of electric generator/motor in many industries. As the ...

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### **The Induction Machines Design Handbook Second Edition ...**

INTRODUCTION There is a dynamic worldwide market for induction machines for constant and variable speed applications; however, an up-to-date comprehensive and coherent treatise in English, dedicated to the induction machine (three phase and single phase) embracing the wide variety of complex issues of analysis and synthesis (design), is virtually nonexistent as of this writing.

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