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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)

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**The Induction Machines Design Handbook, Second Edition** written by Boldea, Ion, Nasar, Syed A is very useful for Mechanical Engineering (MECH) students and also who are all having an interest to develop their knowledge in the field of Design, Automobile, Production, Thermal Engineering as well as all the works related to Mechanical field.

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**Chapter 1 INDUCTION MACHINES: AN INTRODUCTION**

**The third edition of Induction Machines Handbook** comprises two volumes, *Induction Machines Handbook: Steady State Modeling and Performance* and *Induction Machines Handbook: Transients, Control Principles, Design and Testing*. The promise of renewable (hydro and wind) energy via cage-rotor and doubly fed variable speed generators e-transport propulsion, i-home appliances makes this third edition ...

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**Preface of Induction Machines Handbook Transients, Control Principles, Design and Testing Third Edition by Ion Boldea** Sudden short circuits, at the terminals of large induction motors, lead to very large peak transient currents and torques.

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**Induction Machines Handbook Transients, Control Principles ...**

**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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