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As a result, the learning of electrical machines, drives, and power systems becomes a challenging, thought-provoking experience. In order to convey the real-world aspects of machinery and power systems, particular attention has been paid to the inertia of revolving masses, the physical limitations of materials, and the problems created by heat.

Indeed, teaching of electrical machines was modified to incorporate power electronics, during the 1980's and early 1990's, and further modified by the turn of the millennium include closed ...

Past histories of air power, both popular and academic, have tended to restrict themselves within self-imposed boundaries of one sort or another. There are surveys that examine various ...

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Firstly, define the specifications of the electrical machine and drive system required by a given application, which include the steady state specifications, such as the rated power, speed range, voltage, current, efficiency, power factor (in case of AC machines), volume and cost, and dynamic performances, such as the maximum overshoot, settling time, and stability.

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Power losses and efficiency are two main issues in the design analysis of electrical machines and drive systems. The power losses are mainly composed of the copper loss, core loss, mechanical loss, and stray loss. Fig. 2.1 Multi-disciplinary design framework of electrical machines and drive systems

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