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~~Lecture)~~ Prof Stephen Finney Inaugural

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and why do we need it?\" Lesson 1 -

Voltage, Current, Resistance (Engineering

Circuit Analysis) Online Lecture 6

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*Lecture 5 Electrical Machines (EE-361)*

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Machines (EE-361) DSU Online Lecture 3

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Topper AIR -02 Qaisar Hafiz Sir (5 Times

IES) **Electrical Machines Drives And**

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**What is an Electrical Drive? |**

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study of induction and synchronous machines, respectively. Starting from their electromagnetics, steady-state equations and equivalent circuits are derived, from which their basic properties can be deduced. The second part discusses the main power-electronic supplies for electrical drives, for example rectifiers,

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choppers, cycloconverters and inverters.

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electronics of part two. Field orientation of induction and synchronous machines are discussed in detail, as well as direct torque control. In addition, also switched reluctance machines and stepping motors are discussed in the last chapters. Finally, part 4 is devoted to the dynamics of traditional electrical machines. Also for

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And Power synchronous machine drives are discussed in detail as well, with the derived models for stability in the small as starting point. In addition to the study of the stability in the small, a chapter is devoted to large-scale dynamics as well (e.g. sudden short-circuit of synchronous machines). The textbook is used as the



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