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### **Electrical Machines, Drives and Power Systems**

42 Electrical Machines and Drive Systems Example 3.2 A d.c. shunt-wound, (self-excited) generator rated at 220 V and 40 A armature current has an armature resistance of 0.25  $\Omega$ . The shunt field resistance is 110  $\Omega$  and there are 2500 turns per pole.

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For a.c. machines, the m.m.f. of the stator16 Electrical Machines and Drive Systems (1.3)Figure 1.9 Machine equivalent circuits.(1.4) Introduction and review of basic theory 17(usually) produces a rotating field at synchronous speed  $\omega_s = 2\pi n_s$  rad/s, where  $n_s = f/p$  rev/s.

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