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Mechanical to electrical power conversion. By definition, Generators convert mechanical energy to electrical energy and motor do it the opposite direction. There are three types of machines; DC machine, synchronous machine and induction (asynchronous) machine. Each type of machine can be a generator or a motor.

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Then models of the machines are developed, in terms of both simplified equations and of equivalent circuits, leading to the basic understanding of modern machines and drives. Power electronics are introduced, at the device and systems level, and electrical drives are discussed.

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The two basic transformations of generalized machine theory, the slip-ring to commutator primitive and the polyphase to two-phase, are extended to include harmonics in a linear machine. They give insight into the physical processes involved but are of little value for numerical solution.

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Dwarkadas Prahladas Kothari (born 7 October 1944) is an educationist and professor who has held leadership positions at engineering institutions in India including IIT Delhi, Visvesvaraya National Institute of Technology, Nagpur and VIT University, Vellore. Currently, He is with Electrical Engineering Department as Hon. Adjunct Professor. As a recognition of his contributions to engineering ...

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