



The electromagnetism of the induction motor

Shayak Bhattacharjee

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This book presents a brief but comprehensive account of the induction motor. The technique used is classical electromagnetic theory and Maxwell's equations act as the starting point for the analytic derivation of the dynamic motor model. The results of this approach are in excellent agreement with the predictions of the equivalent circuit model and with finite element based simulations. After presenting the dynamical equations, their practical consequences have been explored in detail, with emphasis on applications of the motor. The traction motor has been considered as a case study. Among the attractions of this book are closed form expressions for the rotor and stator inductances, explicit determination of the rotor and stator eigenfrequencies and an exact, analytical solution of the rotor and stator currents in response to a six step voltage source inverter.

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