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Electromechanical Dynamics

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PROBLEMS

4.1. The object of this problem is to analyze a physical configuration that yields the electrical terminal relations of (4.1.6) and (4.1.7) almost exactly. The system of Fig. 4P.1 consists of two concentric cylinders of ferromagnetic material with infinite permeability and zero conductivity. Both cylinders have length l and are separated by the air gap g . As indicated in the figure, the rotor carries a winding of N_r turns distributed sinusoidally and

