

# Transformer Tests Using MATLAB/Simulink and Their Integration Into Undergraduate Electric Machinery Courses

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**ABSTRACT:** This article describes MATLAB/Simulink realization of open-circuit and short-circuit tests of transformers that are performed to identify equivalent circuit parameters. These simulation models are developed to support and enhance electric machinery education at the undergraduate level. The proposed tests have been successfully integrated into electric machinery courses at Drexel University, Philadelphia, PA and Nigde University, Nigde, Turkey. © 2006 Wiley Periodicals, Inc. *Comput Appl Eng Educ* 14: 142–150, 2006. Published online in Wiley InterScience (www.interscience.wiley.com). DOI 10.1002/cae.20077

**Keywords:** transformers; education; software laboratory; MATLAB/Simulink

## INTRODUCTION

Electrical machinery courses at the undergraduate level typically consist of classroom and laboratory sections. The classroom section generally covers the steady-state operation of transformers in which the per-phase equivalent circuit is used to compute

various quantities such as losses, efficiency, and voltage regulation. The laboratory section includes open-circuit, short-circuit tests conducted to determine no-load losses and equivalent circuit parameters, and load test to study transformer performance under various loading conditions.

The Electrical and Computer Engineering (ECE) Department of Drexel University offers a pre-junior level machine course (ECE-P 352 Electric Motor Control Principles) that concentrates on the fundamentals of electromechanical energy conversion and related control theory. This 5-h course, required for

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