



Article

# A Nonlinear Circuit Analysis Technique for Time-Variant Inductor Systems

Xinning Wang <sup>1,†</sup>, Chong Li <sup>2,†</sup>, Dalei Song <sup>2,\*†</sup> and Robert Dean <sup>3</sup>

<sup>1</sup> Department Computer Science & Software Engineering, Auburn University, Auburn, AL 36849, USA; xzw0033@auburn.edu

<sup>2</sup> Department Automation & Measurement, Ocean University of China, Qingdao 266100, China; chong.li@ece.gatech.edu

<sup>3</sup> Department Electrical & Computer Engineering, Auburn University, Auburn, AL 36849, USA; deanron@auburn.edu

\* Correspondence: songdalei@ouc.edu.cn; Tel.: +86-0532-66782723

† These authors contributed equally to this work.

‡ Current address: 238 Songling Road, Qingdao, Shandong 266100, China.

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**Abstract:** Time-variant inductors exist in many industrial applications, including sensors and actuators. In some applications, this characteristic can be deleterious, for example, resulting in inductive loss through eddy currents in motors designed for high efficiency operation. Therefore, it is important to investigate the electrical dynamics of systems with time-variant inductors. However, circuit analysis with time-variant inductors is nonlinear, resulting in difficulties in obtaining a closed form solution. Typical numerical algorithms used to solve the nonlinear differential equations are time consuming and require powerful processors. This investigation proposes a nonlinear method to analyze a system model consisting of the time-variant inductor with a constraint that the circuit is powered by DC sources and the derivative of the inductor is known. In this method, the Norton equivalent circuit with the time-variant inductor is realized first. Then, an iterative solution using a small signal theorem is employed to obtain an approximate closed form solution. As a case study, a variable inductor, with a time-variant part stimulated by a sinusoidal mechanical excitation, is analyzed using this approach. Compared to conventional nonlinear differential equation solvers, this proposed solution shows both improved computation efficiency and numerical robustness. The results demonstrate that the proposed analysis method can achieve high accuracy.

**Keywords:** variable inductor; nonlinear circuits analysis; sensor nonlinear dynamics; mechatronics

## 1. Introduction

Time-variant inductors exist in many industrial applications such as electric motors [1], power electronics [2], magnetic bearings [3], Linear Variable Differential Transformers (LVDT) [4], piezoelectric actuators [5] and fluidic valves [6]. The changing inductance will make the flux inside a motor nonuniform, which causes eddy currents to occur. The eddy current loss (induction loss) is a major loss in addition to Ohmic losses in the copper, hysteresis loss and mechanical loss [7–9], especially if a motor is running at high speed [10,11]. Recent studies also indicate that the induction loss also introduces distortions in MRI imaging systems [12]. The industry has been expected to reduce induction loss in order to not only improve the power efficiency but to also cancel the steady state ripples resulting from the eddy currents. Previously, the researchers have focused on the this topic by topology or structural optimization approaches such as using an special spinning echo [13] and novel interface circuits [14].

On the other hand, many techniques utilize the eddy currents for sensing, such as metal detection sensors [15], motor fault diagnosis sensors [16] and non-destructive sensors [17]. Some automatic

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