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A Novel Two-Phase Boost Converter Model with Inductive Energy Storage Technology

By Robert Dixon et al.

GRIN Verlag GmbH Jun 2014, 2014. Taschenbuch. Book Condition: Neu. 211x148x8 mm. This item is printed on demand - Print on Demand Neuware - Scholarly Research Paper from the year 2014 in the subject Electrotechnology, grade: 5, , course: Ph.D in Power Electronics, language: English, comment: Prof. Gennady Ya. Mikhachenko, Dr. Sc. and Dr. Sergey G. Mikhachenko, Dr. Sc., of Tomsk University of Control Systems and Radioelectronics has been my supervisor and ass. supervisor since 2011. Prof. Gennady Ya. Mikhachenko has published many articles in the field of SMPS and dynamics of nonlinear systems well over two decades. His work is well known internationally. I am grateful to be working with him for my Ph.D in Dynamics of soft-switching for Power Electronics. , abstract: This article propose a novel two phase voltage boost converter (TPBC) model with soft-switching transistors, based on the use of an inductive energy storage technique in the structure of the boost voltage converter. The design proposes a mathematical and analytical model of the TPBC system using a pulse frequency width modulation (PFWM). Detailed analysis of the TPBC dynamics have been obtained, such as, stable, unstable, quasi-periodic, bifurcation phenomena and chaotic regimes. Thus, reducing the issues of...



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