

## عنوان مقاله:

APPLICATION OF NON-LINEAR PROGRAMMING OPTIMIZATION TECHNIQUE IN POWER TRANSFORMER DESIGN

## محل انتشار:

مجله تحقیقات کاربردی، دوره 1، شماره 2 (سال: 1394)

تعداد صفحات اصل مقاله: 9

## نویسندگان:

Omorogiwa Eseosa - *Department of Electrical and Electronic Engineering,,College of Engineering,University of Port Harcourt, Nigeria*

Oboma S.O - *Department of Electrical and Electronic Engineering,,College of Engineering,University of Port Harcourt, Nigeria*

## خلاصه مقاله:

Due to huge number of power transformers yearly consumed and installed in the utility networks, it is always required and targeted to build transformers with the most reasonable cost. Achieving the guaranteed characteristics of transformers is an important factor that should be considered knowing that transformer design task is time consuming. In this work, a successful attempt for designing large size power transformer using non-linear programming (NLP) technique was presented. The mathematical transformer design formulation is explained in a systematic way for a typical power transformer. Optimization methodologies and implementation of results were also presented. The results showed the effectiveness of the proposed mathematical formulation of transformer design problem and the .reduction of total cost when compared to conventional designs

## کلمات کلیدی:

Power Transformer, Transformer Design, Optimization, Nonlinear Programming

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/442566>

