



# Optimization of a Polyvinylchloride Rubber using Artificial Neural Networks (Font size-16, No Abbreviation such as ANNs or PVC)

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**Abstract:** The abstract should reflect the research work aims and objectives, methods adopted, summary of brief finding of the research work, and conclusion. (Font size-10, words: Not more than 250)

**Key words:** Artificial Neural Networks, Optimization, Modeling, Simulation, Rubber, Toughness (Minimum of four keywords and maximum of six; all keywords should be relevant to the research work): Font size 10

## INTRODUCTION

The introduction should reflect background to the research work, statement of problems, aims and objectives of the research, related literature to the research topic (recent references), justification and significance of the research. The introduction should not exceed three paragraphs and is strictly 11 font size Book Antiqua. All citation should be in blue (Orhorhoro, 2018, Iseru *et al.*, 2014)

## MATERIAL AND METHODS (Font size: 12)

This section contains the design, material, procedure,

A. Figure (Font size: 11)

Pictures, charts and diagrams should be cited as Fig. and should be properly numbered before presenting it in the order in which they are referred such as Fig. 2. (Font size 8 Book Antiqua).



Fig.2 Logo

*B. Equations (Font size: 11)*

All equations must be clearly typewritten and special symbols must be properly identified. The equation must be separated by one blank line. Equations should be typed in Equation Editor or Mathtype Software (send in editable form).

$$P = (T_1 - T_2)V \quad (1)$$

$$T = Fr \quad (2)$$

*C. Tables*

Tables must be numbered consecutively along with a brief title. The number of the table should be cited in the text (e.g., [Table 1](#) shows the brief summary of IUO staffs) before presenting the tables.

**Table -1** Brief of IUO Staffs

Number	Staff Name	Department
1	Adingwupu Anthony	Mechanical Engineering

*D. Units and Dimensions*

Units and dimensions should be expressed according to the SI units.

**RESULTS AND DISCUSSION (Font size: 12)**

The results and findings of the research work should be presented in graphs and tables. However, results presented in graph should not be repeated in table and vice versa. The results should reflect major findings and their explanation/interpretations. The results should be properly discussed and compared with existing research work.

**CONCLUSION (Font size: 12)**

A conclusion indicates the advantages, limitations and possible applications of the paper. The author (authors) should not replicate the abstract as the conclusion.

**RECOMMENDATION**

Recommendation should be brief and related to the research work.

**CONFLICT OF INTEREST**

The research work should be original.

**ACKNOWLEDGEMENT**

Acknowledge should not be more than four lines. Information concerning research grant support and the assistance of colleagues or similar notes of appreciation may appear this section.

## REFERENCES

Author's initial names should be abbreviated with full stop in between if more than one initial. Comma (,) should be used to separate names of two or more authors. Names of the journals should be written in full and put in italics. Citation should follow the format which contains author-date references in the text of the manuscript, such as (Eramel, 2017). References should be cited using author's surname, e.g., Iseru, 2018, Omoyibo and Emifomiye, 2018. When more than two authors, the Latin phrase et al., an abbreviation meaning "and others should be use, e.g., Olorunleke et al., (2014) for Olorunleke, A., Adingwupu, A.C., Eramel, A.A. (2014). Reference should be very relevant and recent related research work should be cited and properly reference. Reference should be listed at the end of the text as surnames followed by initials throughout; the use of "and" should be avoided. Authors should adhere to the following examples:

### Journals

Adingwupu, A.C., Oluwafemi, J., Eramel, A.A., Emifomiye E.U. (2018). Prediction of Critical Drawdown Pressure for Prevention of Sand Production in an Oil Well. *Nigerian Journal of Engineering Science Research (NIJESR)*. 1(1): pp. 1-9

Orhorhoro, E.K., Olorunleke, A., Essienubong, A.E. (2018). Analysis and Evaluation of Oil Well Riser with Different Exit Geometries Using Computational Fluid Dynamics (CFDs). *International Journal of Advances in Scientific Research and Engineering (IJASRE)*. 4(6): pp.127-135

### Books

Omoyibo, Q.K., Iseru, E. (2018). *Automobile and Machine*. Igbinedion University Press. ISBN: 2314-7865

### Thesis

Orhorhoro, E.K. (2014). *Performace Study of a Biogas Pilot Plant using Domestic Waste from Benin Metropolis*. Master's Thesis, Department of Mechanical Engineering, Faculty of Engineering, University of Benin, Benin City, Nigeria