

Accepted Manuscript

Importance of numerical analyses for determining support systems in tunneling: A comparative study from the trabzon-gumushane tunnel, Turkey

Mustafa Kanik, Zulfu Gurocak



PII: S1464-343X(18)30092-X

DOI: [10.1016/j.jafrearsci.2018.03.032](https://doi.org/10.1016/j.jafrearsci.2018.03.032)

Reference: AES 3184

To appear in: *Journal of African Earth Sciences*

Received Date: 21 November 2017

Revised Date: 26 March 2018

Accepted Date: 27 March 2018

Please cite this article as: Kanik, M., Gurocak, Z., Importance of numerical analyses for determining support systems in tunneling: A comparative study from the trabzon-gumushane tunnel, Turkey, *Journal of African Earth Sciences* (2018), doi: 10.1016/j.jafrearsci.2018.03.032.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1
2
3 **IMPORTANCE OF NUMERICAL ANALYSES FOR DETERMINING SUPPORT**
4 **SYSTEMS IN TUNNELING: A COMPARATIVE STUDY FROM THE TRABZON-**
5 **GUMUSHANE TUNNEL, TURKEY**
6
7
8
9

10 Mustafa Kanik*, Zulfu Gurocak*

11
12 *Firat University, Faculty of Engineering,
13 Geological Engineering Department,
14 23119 Elazig, TURKEY
15

16
17
18 **Submitted to**

19 **Journal of African Earth Sciences**

20 **March 2018**
21
22

23 **Corresponding Author:**

24 Mustafa KANIK

25 e-mail: mkanik@firat.edu.tr

26

Download English Version:

<https://daneshyari.com/en/article/8913476>

Download Persian Version:

<https://daneshyari.com/article/8913476>

[Daneshyari.com](https://daneshyari.com)