TP. 2017.01.24

**Appendix A: Author’s Guide**

Do not put contents or lines in headings

General

A4, vertical page, margin settings (Top 5cm, Bottom 4cm, Left/Right 2.8cm) Single line spacing, Single column, in Black

Put the title of the paper here with font Arial, size 16pt, centered, length up to 2 lines

Title

First + Middle (initial) + Last name1a(Superscript―\*:Corresponding, 1:affiliation, a:footnote info), Sullivan T. Smith\*2, Tanaka Ikarashi1a and Ahmed M. Mohamed2b

Authors

*1Affiliation (Department, Institute, Address, Country) with font Arial, size 9.5pt 2Department of Civil Engineering, Korean Advanced Institute for Science and Technology, 291 Daehak-ro, Yuseong-gu, Daejeon 305-701, Republic of Korea*

Affiliations

*(Received keep as blank , Revised keep as blank , Accepted keep as blank )*

Dates

Insert abstract paragraph here with Times New Roman font and 10.5pt size. Abstract length needs to be approximately 250 words (about 15 lines). Do not have References, Equations, Figures, or Tables in the abstract.

Abstract

**Abstract.** This study aimed to develop a model to accurately predict the acceleration of structural systems during an earthquake. The acceleration and applied force of a structure were measured at current time step and the velocity and displacement were estimated through linear integration. ……

**Keywords:** complex terrain; typhoon wind field; CFD simulation; surface roughness length; topography

**Keywords should be in alphabetical order.**

Keywords

# Introduction

Section title - Level 1: Arial, 11pt, Bold, No indent

Main text

Normally, strong winds have been associated with two types of wind in typhoon prone region.

**Text:** Times New Roman, 11pt, 0.5cm indent for the first line

The first one is the nature win Many investigations about the

d and the other one is the typho vibration and buckling (static sta

on, or say severe tropical cyclone. bility) characteristics of frames of

various types have been carried out. Cheng (2011) have studied the elastic critical loads for plane frames by using the transfer matrix method. A general digital computer method has been described by Cheng and Xu (2012) ……

Reference Citation (2 authors)

Reference Citation (1 author)

# Section title: Level 1

The system examined, shown schematically in Fig. 1 is a beam of variable cross section, carrying a so called heavy tip mass *M.* Its mass moment of inertia with respect to the perpendicular

ntal investigation

axis at the centroid *S* is denoted by *JS*. Analytical and experime

Figure Citation

(1 figure)

s on vibrating

frames carrying concentrated masses have been studied by using analytical solutions and the finite element method (Cheng *et al*. 2013a, b). …

…

Reference Citation (more than 3 authors)

Corresponding author, Professor (or Ph.D., etc.), E-mail: email address

a Ph.D., E-mail: email address

Optional

Times New Roman, 10pt

Footnote

b Ph.D. Student, E-mail: email address

**Abbreviations in figures and tables should be defined. i.e., Fig. 1 Diagram of MICP (Microbial induced calcium carbonate precipitation)**

* 1. *Numerical simulation procedure*

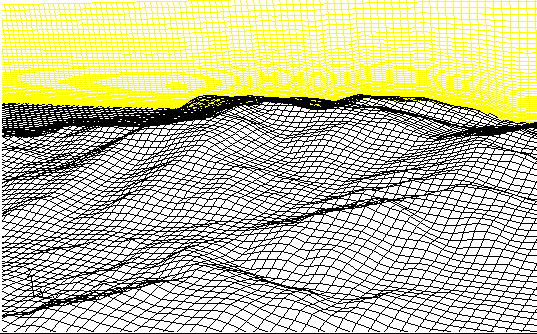


Fig. 1 Mesh grid of topographic model

Limit line of the table Leave single lines for all borders

Figure Caption:

Times New Roman, 10pt, Centered

Locate figure in a table as an image file (.jpg)

Subtitle - Level 2:

Arial, 11pt, *Italic*, 0.5cm indent

Figure Caption

of the Hamilton’s Principle with the notations used in the

One can write the extended form present study as……

Consecutive no.: Right alignment

**Mathematical expression (centered):**

Insert > Object > Microsoft Equation 3.0 (MS Word 2007) Insert > Equation (MS Word 2010)

1  *d*

 1  *d* 

*UL* 

 *EI* (*v*1****)2 *dx*    *EA*(*u*1)2 *dx* 



(1)

   

Figure

2

2

 0   0 

In consideration of different 10m height wind speed v10 and the power law exponent index *α* results shown in Table 2, the representative upstream typhoon wind fields at different directions used as the input data for training determined, which is shown in Tables 1-2.……

ANN model are

Table Citation (2 Tables)

Table Citation (1 Table)

# Section title: Level 1

Equation Citation (1 Equation)

Equation Citation (2 Equations)

e developed to represent a cracked beam element of length *d* and the crack is located at a distance *d*1 from the left end of the element as shown in Figs. 2-3. Substituting Eqs. (3)-(4) in Eq. (7) yields the general equation for the local compliances as follows (considering that all *K*’s are independent of **; *:* see Figs. 2(a)-(b)

ular area taking the

.

A finit

element model is

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| --- | --- |
| ). In this regard, the circ | Figure Citation  (more than 2 figures in order) |
| ed (see Fig. 1 and 3).….. |

bridge as a center with a proper radius shall be consider

Table 1 Caption

Table 10pt

Table Caption

Table Caption: Times New Roman, 10pt

Figure Citation (more than 2 figures)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Intact | DI | D2 | Intact | DI | D2 |
| OF-1\* | Mean | 2.63 | 2.62 | 2.53 | 3.34 | 2.67 | 2.46 |
| SD | 0.041 | 0.369 | 0.123 | 0.290 | 0.444 | 0.207 |
| OF-3 | Mean | 23.39 | 23.24 | 22.55 | 23.63 | 23.12 | 22.73 |
| SD | 0.021 | 0.161 | 0.161 | 0.042 | 0.251 | 0.213 |

\*OF-1: Observed Frequency for 1st mode; OF-3: Observed Frequency for 3rd mode

Footnote

Additional explanations for items in the table

Figures

**All of the original figures and tables are required to be placed at the suitable location**

**in the text.**

Figure Captions

|  |  |
| --- | --- |
| (a) Wind speed profile | (b) Wind direction profile |
| Fig. 2 ANN model output training data for upstream typhoon wind field coming from N direction with  exponent 0.22 | |

# Section title: Level 1

500

500

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300

Locate figure in a table as an image file (.jpg)

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100

0

0 20 40 60 80 100 120 140 160

0

-5 0 5 10 15 20 25 30

wind speed *v*(*z*) (m/s) wind direction **(*z*) (deg)

*v*10=10m/s

*v*10=30m/s

*v*10=50m/s

*v*10=10m/s

*v*10=30m/s

*v*10=50m/s

height from ground surface (m)

height from ground sur

* 1. *Subtitle: Level 2*

Subtitle - Level 3:

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* + 1. *Subtitle: Level 3*

On the day of the beam test, the respective control cylinders were capped and tested in compression to determine the compressive strength of concrete. Table 1 shows that the average values of the 56-day compressive strengths are 69.2 and 68.7 MPa for Series V and S specimens, respectively. The r mix designs were different, they had similar compressive

esults indicate that although the two strengths……

Subtitle - Level 4:

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*Subtitle: Level 4*

Chondros *et al.* (1998) have developed a continuous cracked beam vibration theory for the

lateral vibration of cracked Euler-Be

rnoulli beams with single-e

# Conclusions

Reference Citation (more than 3 authors)

dge or double-edge open cracks….

A numerical simulation procedure for predicting directional typhoon wind fields over complex terrain has been proposed in this study.

* The reduction of natural frequency depends on the crack depth and crack location.



* Higher drops in the in-plane natural frequency are observed when the crack is located near

the roots or

List-item marks:

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corners of the frames…………

)

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e c a f

# Acknowledgments

The research described in this paper was financially supported by the Natural Science Foundation ……

Times New Roman, 10pt List in alphabetical order

# References

Author(s): As appears in the original paper title, except the first author’s last name comes first

References

Author(s) (Year), “Title of paper (Capital letter only for the first letter)”, *Name of Journal (Italic)*, **Volume number in bold**(Issue number in non-bold), page-page. doi address.

Journal titles: May be abbreviated

Journal Papers

Cheng, Y.F. (2011), “A comparison of large……”, *Struct. Eng.*

*Mech.*, **91**(4), 1301-1328.

https://doi.org/10.12989/sem.2011.91.4.1301.

DOI

Cheng, Y.F., Xu, B.M. and Carter, G.D. (2012), “A comparison of large……”, *Comput. Concrete*, **91**(4), 130 ac.2012.91.4.1301.

1-1328. https://doi.org/10.12989/c

Y.F. and Xu, B.M. (2013a), “A

Cheng,

**Indent 1ch** except the first line

comparison of large……”, *Steel Comp. Struct.*, **91**(4), 1301-1328.

https://doi.org/10.12989/scs.2013.91.4.1301.

Cheng, Y.F. and Xu, B.M. (2013b), “A comparison of large……”, *J. Wing Eng.*, **91**(4), 1301-1328. https://doi.org/10.12989/xxx.2013.91.4.1301.

Author(s) (Year), *Name of Book (Every word starts in capital letter)*, Name of publishing company, City, State, Country.

Books

Harris, D.C. (2007), *Quantitative Chemical Analysis*, W.H. Freeman and Company, New York, NY, USA. Harris, D.C. (2007), *Quantitative Chemical Analysis*, (7th Edition), W.H. Freeman and Company, New York,

NY, USA.

Author(s) (Year), “Title of paper”, *Name of Proceeding or Name of occasion (Every word starts in capital letter)*, City, Month.

Proceeding Papers

Kerciku, A.A., Bhattacharya, S., Burd, H.J. and Lubkowski, Z.A. (2008), “Fixity of pile foundations ……”,

*Proceedings of the 14th World Conference on Earthquake Engineering*, Bejing, China, October. Author(s) (Year), “Title of paper”, Ph.D. Dissertation; Name of University, City, Country.

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Wu, Y.F., Oehlers, D.J. and Griffith, M.C. (2001a), “Numerical simulation of composite plated columns”, Research Report No. R172; Department of Civil and Environmental Engineering, Adelaide University, Adelaide, Australia.

Gourley, B.C., Tort, C., Denavit, M.D., Schiller, P.H. and Hajjar, J.F. (2008), “A synopsis of studies of the monotonic and cyclic behavior of concrete-filled steel tube members, connections and frames”, Report No. NSEL-008; Newmark Structural Engineering Laboratory, Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, Champaign, IL, USA.

Design code (Year), *Title*, Full name of the code, Name of Organization; City, Country.

Design Codes

ACI 318 (2011), Building code requirements for structural concrete and commentary, American Concrete Institute; Farmington Hills, MI, USA.

Eurocode (2003), Design of Steel Structures. Part 1.5: Plated Structural elements, European Committee for Standardization; Brussels, Belgium.

Name of URL (Year), Title of the website link; Name of Organization, City, Country. Link address ARTeMIS (2004), Ambient Response Testing and Modal Identification Software ARTeMIS Extractor Pro

Website Links

3.43.; Structural Vibration Solution A/S Aalborg East, Denmark. [www.svibs.com](http://www.svibs.com/) COMSOL Inc. (2013), [http://www.comsol.com](http://www.comsol.com/)