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(Times New Roman, Font 16)†

Sullivan T. Smith1, Tanaka Ikarashi2 and Ahmed M. Mohamed2,\* (Times New Roman, Font 11.5)

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(Manuscript Received 000 0, 2013; Revised 000 0, 2013; Accepted 000 0, 2013) -please leave blank

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**Abstract**

Abstract must be written in Times New Roman, font 9. 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 (Times New Roman, font 8, upper case at the beginning of each keyword)

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**1. Introduction: Level 1 (Times New Roman, Font 10, Bold)**

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Normally, strong winds have been associated with two types of wind in typhoon prone region. The first one is the nature wind and the other one is the typhoon, or say severe tropical cyclone. Many investigations about the vibration and buckling (static stability) characteristics of frames of various types have been carried out. Cheng [1] 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 [2]……

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**2. Section title: Level 1**

The system examined, shown schematically in Figure 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 axis at the centroid S is denoted by *JS*. Analytical and experimental investigations on vibrating frames carrying concentrated masses with characteristics of frames have been studied by using analytical solutions and the finite element method [3, 4]……. Contents of the journal should be written in English using Times New Roman 9.5pt.

***2.1 Numerical simulation procedure (Times New Roman, Font 9.5, Italic, Bold)***

One can write the extended form of the Hamilton’s Principle with the notations used in the present study as……

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 ANN model are determined, which is shown in Tables 1-2……

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**3. Section title: Level 1**

A finite element model is developed to represent a cracked beam element of length d and the crack is located at a distance d1 from the left end of the element as shown in Figs. 2-3.

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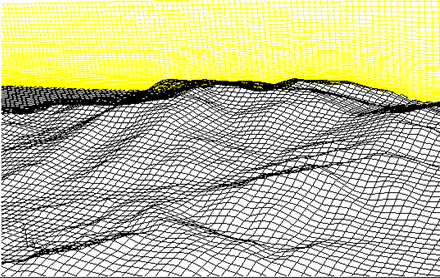


Figure 1. Mesh grid of topographic model.

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Table 1. Table caption.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | 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

**4. Section title: Level 1**

***4.1 Subtitle: Level 2***

***4.1.1 Subtitle: Level 3 (Times New Roman, Font 9.5, Italic, Bold)***

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 results indicate that although the two mix designs were different, they had similar compressive strengths……

**5. Conclusions**

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 corners of the frames……

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wind speed wind direction wind direction

(a) (b) (c)

Figure 2.Figure example example example example example example example example example: (a) example example example example, (b) example example example example, (c) example example example.

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**Acknowledgments**

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

**References**

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2. A.D.A.M. medical encyclopedia [Internet]. Atlanta: A.D.A.M., Inc.; c2005 [cited 2007 Mar 26]. Available from: http://www.nlm.nih.goc/medlineplus/encyclopedia.html