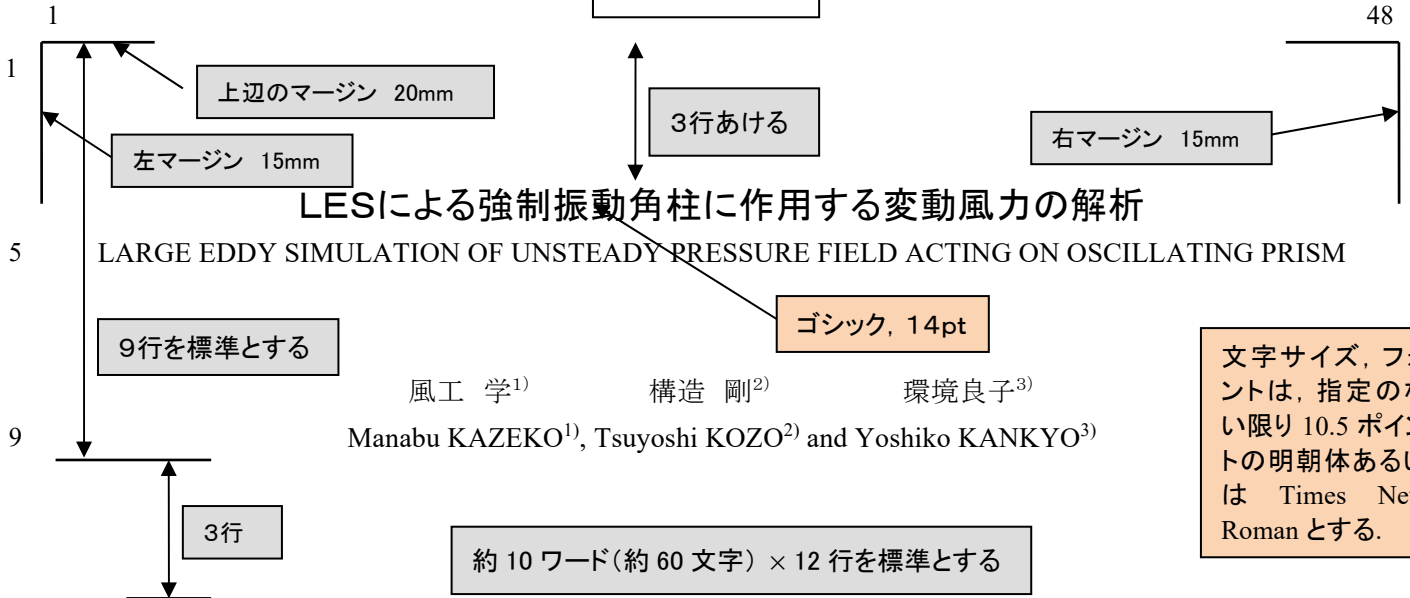


論文体裁見本



LESによる強制振動角柱に作用する変動風力の解析

LARGE EDDY SIMULATION OF UNSTEADY PRESSURE FIELD ACTING ON OSCILLATING PRISM

風工学<sup>1)</sup> 構造剛<sup>2)</sup> 環境良子<sup>3)</sup>

Manabu KAZEKO<sup>1)</sup>, Tsuyoshi KOZO<sup>2)</sup> and Yoshiko KANKYO<sup>3)</sup>

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ABSTRACT

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. . . . . a good agreement with the experimental data in terms of, 1) the phase angle between the displacement of the oscillating prism and the negative pressure acting on the side face, 2) the correlations of the pressures across the side face.

Key Words: LES, Oscillating prism, Unsteady pressure field

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2行

1. はじめに

本文の開始

著者らは既報において2次元角柱周りの流れに対してLESの2次元計算、3次元計算を比較し、3次元LESの結果が静止角柱に作用する . . . . .

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<sup>1), 2)</sup> 風工大学工学部建築学科 教授、助教授 (〒106-0032 港区六本木1-0)

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参考文献

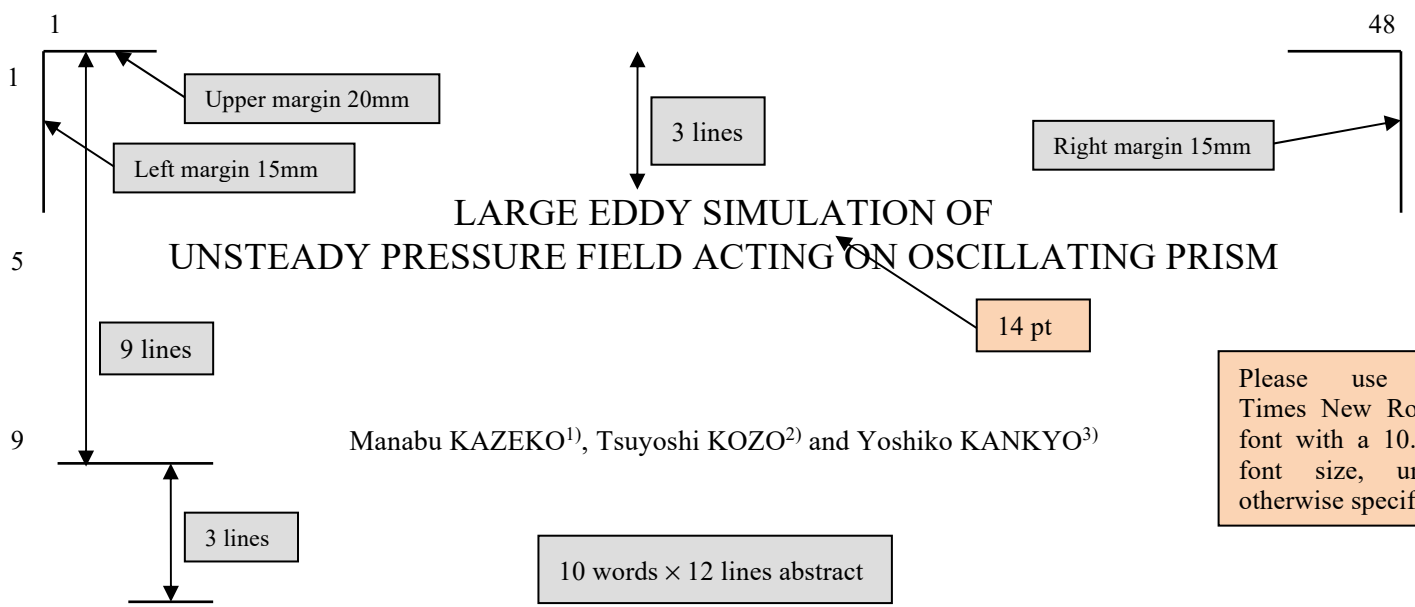
最終ページ結び

1) Bearman, P.W. and Obasaju, E.D.: An Experimental Study of Pressure Fluctuations on Fixed and Oscillating Square-section Cylinders, *J. Fluid Mech.*, vol.119, pp.297-321, 1982

2) Hirt, C.W. et al.: An Arbitrary Lagrangian-Eulerian Computing Method for All Flow Speeds, *J. Comp. Phys.*, 14, pp.227-253, 1974

3) 環境良子, 構造剛, 風工学, 2次元角柱周辺の乱流数値解析(その2), 日本建築学会大会学術講演梗概集, pp.209-210, 1991

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Please use the Times New Roman font with a 10.5 pt font size, unless otherwise specified.

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Key Words: LES, Oscillating prism, Unsteady pressure field

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2 lines

**1. INTRODUCTION**

Distributions of the fluctuating surface pressure and the wind forces acting on bluff-shaped bodies are of great practical interest in the field of structural . . . . .

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1), 2) Professor, Associate Professor, Dept. Architecture Kazeko University, 1-0 Roppongi, Minato-ku, Tokyo 106-0032

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**REFERENCES**

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1) Bearman, P.W. and Obasaju, E.D.: An Experimental Study of Pressure Fluctuations on Fixed and Oscillating Square-section Cylinders, *J. Fluid Mech.*, vol.119, pp.297-321, 1982

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3) Kankyo, Y., Kozo, T. and Kazeko, M., Numerical Study on Air Flow around 2D Square Prism (Part 2), Summaries of Technical Papers of Annual Meeting Architectural Institute of Japan, pp.209-210, 1991 (in Japanese)

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構造 剛<sup>2)</sup>

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#### 参考文献

- 1) Bearman, P.W. and Obasaju, E.D.: An Experimental Study of Pressure Fluctuations on Fixed and Oscillating Square-section Cylinders, *J. Fluid Mech.*, vol.119, pp.297-321, 1982
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