

Selected Papers (2000～)

1. 論文集

横田敏広・Isuru Wijayawardane・睦好宏史：腐食したPC鋼材を有するPC梁の耐荷力特性と解析的性能評価手法の検討，土木学会論文集 E2，Vol.74, No.4, pp.218-233, 2018.

Yao Luan, Osamu Sanada, and Hiroshi Mutsuyoshi: Experimental Study of Chloride Diffusion Properties of Mortar Mixed with Ion-Exchange Resin, *ACI Materials Journal*, V. 115, No. 5, pp.785-794, September 2018.

Wijayawardane, I.S.K., Mutsuyoshi, H., Nguyen, H. and Manalo, A. : Flexural Behaviour of Glass Fibre-reinforced Polymer and Ultra-high-strength Fibre-reinforced Concrete Composite Beams Subjected to Elevated Temperature, *Advances in Structural Engineering*, Vol.20, No.9, pp.1357-1374, Sep., 2017

Mutsuyoshi, H., Nguyen, H., Zatar, W. and Ishihama, T. : Flexural Behavior of Pultruded Hybrid Fiber-Reinforced Polymer I-Beams with Bonded-and-Bolted Splice Joints, *Transportation Research Record* , Vol. 2592, pp.45-55, 2016

Nguyen Dac Phuong and Hiroshi Mutsuyoshi: Experimental Study on Performance of Mechanical Splices in RC Beams, *ACI Structural Journal*, pp.749-760, Nov.-Dec. 2015

Hai Nguyen; Mutsuyoshi, Hiroshi; Zatar, Wael :Hybrid FRP-UHPFRC composite girders: Part 1- Experimental and numerical approach, *Composite Structures*, Vol.125, pp.631-652, JUL 2015

Hai Nguyen; Zatar, Wael; Mutsuyoshi, Hiroshi :Hybrid FRP-UHPFRC composite girders: Part 2- Analytical approach, *Composite Structures*, Vol.125, pp. 653-671, JUL 2015

村尾光則，篠崎裕生，三上浩，睦好宏史：外面リブ鋼管を有するコンクリート合成構造橋脚の限界変位，構造工学論文集，Vol.61A，2015

青木 圭一・渡邊 晋也・三加 崇・宮永 憲一・睦好 宏史：供用後40年経過したPC桁の性状から推定されるPC橋の性能評価，土木学会論文集 E2（材料・コンクリート構造） Vol. 71, No. 3, pp.283-302, 2015

Nguyen, Hai; Zatar, Wael; Mutsuyoshi, Hiroshi: Hybrid Fiber-Reinforced Polymer Girders Topped with Segmental Precast Concrete Slabs for Accelerated Bridge Construction, *Transportation Research Record*, No.2407, PP.83-93, 2014

Nguyen, Hai; Mutsuyoshi, Hiroshi; Zatar, Wael: Push-out tests for shear connections between UHPFRC slabs and FRP girder, *Composite Structures*, Vol. 118, pp. 528-547, Dec. 2014

篠崎 裕生・浅井 洋・牧 剛史・睦好 宏史：鋼板孔を利用した円柱部材によるずれ止めの実験的研究，土木学会論文集 A1，Vol. 69, No. 3, p. 543-556, 2013

真田修・睦好宏史・浅本晋吾・井上善仁：イオン交換樹脂を混和したモルタルの塩化物イオン拡散特性に関する研究，コンクリート工学論文集，Vol.24, No.3, pp.123-134, 2013

Hai Nguyen, Mutsuyoshi, Hiroshi, Zatar, Wael : Flexural Behavior of Hybrid Composite Beams, *Transportation Research Record*, No. 2332, pp.53-63, 2013

S.V.T. Janaka Perera and Hiroshi Mutsuyoshi: Shear Behavior of Reinforced High-strength Concrete Beams, *ACI Structural Journal*, Vol.110, No.1, pp.43-52, 2013

Manalo Allan, Mutsuyoshi Hiroshi and Matsui Takahiro: Testing and characterization of thick hybrid fibre composites laminates, *International Journal of Mechanical Sciences*, vol. 63, Issue 1, pp.99-109, 2012

Nguyen Duc Hai, Hiroshi Mutsuyoshi. "Structural behavior of double-lap joints of steel splice plates bolted/bonded to pultruded hybrid CFRP/GFRP laminates". *Journal of Construction and Building Materials*, Volume 30, pp. 347-359, May 2012

Manalo, A.C. and Mutsuyoshi, H. Behaviour of fibre reinforced composite beams with mechanical joints. *Journal of Composite Materials*, 46(4), pp.483-496, 2012

Manalo, A.C., Aravinthan, T., Mutsuyoshi, H. and Matsui, T. Composite behaviour of a hybrid FRP bridge girder and concrete deck. *Advances in Structural Engineering*, 15(4), pp 633-644, 2012,

Anawat Chotesuwan, Hiroshi Mutsuyoshi and Takeshi Maki, Seismic behavior of bridges with pier and foundation strengthening: PsD tests and analytical study, *Earthquake Engineering and Structural Dynamics*, Vol 41, Issue 2, pp.279-294, 2011

Hiroshi Mutsuyoshi, Tishimichi Ichimiya, Saitama Michihiro Sakurada and S.V.Thilanka Janaka Perera : High-Strength Concrete for Prestressed Concrete Structures, *Concrete Plant International*, pp.42-46, April, 2010

Nguyen Duc Hai, Hiroshi Mutsuyoshi, Shingo Asamoto, Takahiro Matsui : Structural Behavior of Hybrid FRP Composite I-beam, *Construction and Building Materials*, Volume 24, Issue 6, pp.956-969, June 2010,

Dinh Tuan Hai; Ha Minh; Hiroshi Mutsuyoshi, : Reinforced concrete bridges in Vietnam – specific problems and proposed maintenance strategies, *Structure and Infrastructure Engineering: Maintenance, Management, Life-Cycle Design and Performance*, Taylor & Francis, 1744-8980, March 2009

Sudhira DE SILVA, Hiroshi MUTSUYOSHI and Eakarath Witchukreangkrai Evaluation of Shear Crack Width in I-Shaped Prestressed Reinforced Concrete Beams, *Journal of Advanced Concrete Technology*, Vol.6, No.3, pp.443-458, 2008

Pandey, G. R., Mutsuyoshi, H., Maki, T. : Seismic Performance of Bond Controlled RC Columns, *Engineering Structures(Elsevier)*, Vol. 30, Issue 9, pp. 2538-2547, 2008

Atsushi Sumida and Hiroshi Mutsuyoshi : Mechanical Properties of Newly Developed Heat-Resisting FRP Bars, *Journal of Advanced Concrete Technology*, Vol.6, No.1, 157-170, 2008

Rabin Tuladhar, Takeshi Maki and Hiroshi Mutsuyoshi: Cyclic behavior of laterally loaded concrete piles embedded into cohesive soil, *Earthquake Engineering & Structural Dynamics*, Volume 37, Issue 1, pp. 43-59, January 2008

Minh, H., Mutsuyoshi, H., Taniguchi, H., and Niitani, K., "Chloride-Induced Corrosion in Insufficiently Grouted Post-tensioned Concrete Beams", *Journal of Material in Civil Engineering, ASCE*, Volume 20, Issue 1, pp. 85-91, January 2008

牧剛史・睦好宏史・Rabin Tuladhar・醍醐宏治：実地盤中に設置され実大コンクリート杭の杭頭水平復元力特性と変形性状、土木学会論文集 E、No.3、pp.396-409、2007.7

Ha Minh, Hiroshi Mutsuyoshi and Kyoji Niitani: Influence of grouting condition on crack and load-carrying capacity of post-tensioned concrete beam due to chloride-induced corrosion, *Construction and Building Materials, ELSEVIER*, Volume 21, Issue 7, pp. 1568-1575, July 2007.

角田 敦・睦好宏史：連続繊維補強材の耐熱性状に関する研究，コンクリート工学論文集，Vo.17, No.3, Issue 42, pp.13-23, 2006.

Bimal Babu Adhikary and Hiroshi Mutsuyoshi: Prediction of shear strength of steel fiber RC beams using neural networks, *Construction and Building Materials, ELSEVIER*, Volume 20, Issue 9, Pages 801-811, November, 2006.

Maki, T., Maekawa, K. and Mutsuyoshi, H.: RC Pile-Soil Interaction Analysis using a 3D-Finite Element Method with Fiber Theory-based Beam Elements, *Earthquake Engineering & Structural Dynamics*, Volume 35, Issue 13, pp.1587-1607, 2006.

Bimal Babu Adhikary and Hiroshi Mutsuyoshi: Shear strengthening of reinforced concrete beams using various techniques, *Construction and Building Materials, ELSEVIER*, Volume 20, Issue 6, Pages 366-373, July 2006.

Bimal Babu Adhikary and Hiroshi Mutsuyoshi : Shear strengthening of RC beams with web-bonded continuous steel plates, *Construction and Building Materials, ELSEVIER*, Volume 20, Issue 5, Pages 296-307, June 2006.

睦好宏史, 牧 剛史, Pandey G. R., 杉田清隆, 鉄筋の付着を制御することによる RC 柱部材の耐震性状改善に関する研究, 土木学会論文集, No.802/V-69, pp.155-169, 2005.11.

Aravinthan T., Witchukreangkrai E., Mutsuyoshi H., Flexural Behavior of Two-Span Continuous Prestressed Concrete Girders with Large Eccentric External Tendons, *ACI Structural Journal*, Vol.102, Issue 3, pp.402-411, 2005.7.

Govinda R. Pandey and Hiroshi Mutsuyoshi : Seismic Performance of RC Piers with Bond Controlled Reinforcement, *ACI Structural Journal*, Vol.102, Issue 2, pp.295-304, 2005

Adhikary, B.B., Mutsuyoshi, H. and Ashraf, M., Shear Strengthening of RC Beams Using Fiber-Reinforced Polymer Sheets with Bonded Anchorage, *ACI Structural Journal*, Vol. 101, Issue 5, pp. 660-668, 2004.

Bimal B. Adhikary and Hiroshi Mutsuyoshi : Artificial neural networks for the prediction of shear capacity of steel plate strengthened RC beams, *Construction and Building Materials, ELSEVIER*, Vol.18, Issue 6, pp.409-417, 2004.

Bimal Babu Adhikary and Hiroshi Mutsuyoshi, Behavior of Concrete Beams Strengthened in Shear with Carbon-Fiber Sheets, *Journal of Composites for Construction ASCE*, Volume 8, Issue 3, pp. 258-264, June 2004.

Takeshi Maki and Hiroshi Mutsuyoshi : Seismic Behavior of Reinforced Concrete Piles under Ground, *Advanced Concrete Technology*, Vol.2 No.1, pp.49-64, 2004.

Wael A.Zatar and Hiroshi Mutsuyoshi : R/C Frame Structures with Beams Wrapped by Aramid Fiber Reinforced Polymer Sheets, *Advanced Concrete Technology*, Vol.2 No.1, pp.37-48, 2004.

睦好宏史, 牧 剛史, 山田伝一郎, 小西由人, 藤田亮一 : RCラーメン橋脚におけるはり部耐震補強に関する研究, 土木学会論文集, No. 746/V-61, pp. 215-228, 2003. 11

牧 剛史, 睦好宏史, 前川宏一 : RC 杭体-地盤相互作用解析における線材モデルの適用性, 土木学会論文集, No. 746/V-61, pp. 57-70, 2003. 11

Bimal, B. Adhikary and Hiroshi Mutsuyoshi : Numerical Simulation of Steel-plate Strengthened Concrete Beam by a Non-linear Finite Element Method Model, *Construction and Building Materials, ELSEVIER*, Vol.16, pp.291-301, 2002.

Wael A. Zatar and Hiroshi Mutsuyoshi : Residual Displacements of Concrete Bridge Piers Subjected to Near Field Earthquakes, *ACI Structural Journal*, Vol.99, No.6, pp.740-749, 2002.

睦好宏史・Thiru Aravinthan・濱田 譲・渡辺宗樹 : 大偏心外ケーブル PC 桁の曲げ性状に関する研究, 土木学会論文集, No. 711/V-56, pp. 15-26, 2002. 8.

Taketo Uomoto, Hiroshi Mutsuyoshi, Futoshi Katsuki and Sudhir Misra : Use of Fiber Reinforced Polymer Composite as Reinforcing Material for Concrete, *Journal of Materials in Civil Engineering, ASCE*, pp.191-209, 2002. May/June.

牧剛史・睦好宏史 : 鉄筋コンクリート杭の水平復元力特性と変形性状に関する研究, 土木学会論文集, No. 683/V-52, pp. 103-118, 2001. 8.

睦好宏史・WAEL ZATAR・牧剛史 : プレストレスを導入した鉄筋コンクリート橋脚の耐震性状, 土木学会論文集, No. 669/V-50, pp. 27-38, 2001. 2.

Zatar, W., and Mutsuyoshi, H., "Ductility versus Shear Strength of Partially Prestressed Concrete Bridge Piers," *Creative Systems in Structural and Construction Engineering*, A.A. Balkema, Rotterdam, pp.821-826, Jan. 2001.

Bimal B. Adhikary and Hiroshi Mutsuyoshi: Enhancement of Shear Strength for Reinforced Concrete Beams Using Externally Bonded Fiber-Reinforced Polymer Sheet, *Repair, Rehabilitation and Maintenance of Concrete Structures, and Innovations in Design and Construction, ACI SP-193*, pp.587-604.2000.

ZATAR W., MUTSUYOSHI H. and KOIZUMI H.: A restoring force model for partially prestressed concrete piers, *Transactions of Japan Concrete Institute*, Vol. 21, pp. 247-254, 2000.2.

ARAVINTHAN T., MUTSUYOSHI H., HAMADA Y. and WATANABE M.: Experimental investigation on the flexural behavior of two span continuous beams with large eccentricities, *Transactions of Japan Concrete Institute*, Vol. 21, pp. 321-326, 2000.2.

ADHIKARY B. B., MUTSUYOSHI H., KANAI T. and SIRIMONTREE S. : Shear adhesion behavior of concrete epoxy steel and concrete-epoxy-CFRP interfaces, *Transactions of Japan Concrete Institute*, Vol. 21, pp. 391-398, 2000.2.

Zatar, W., and Mutsuyoshi: Influence of Strength Ratio on Behavior of Partially Prestressed Concrete Bridge Piers, *Transactions of Japan Concrete Institute*, pp.265-272, Vol.22, 2000.

THRI, ARAVINTHAN, MUTSUYOSHI, H., HARA, K. and WATANABE, M.: Experimental Investigation on the Flexural Behavior of Precast Segmental PC Beams with Large Eccentricities, *Transactions of Japan Concrete Institute*, pp.337-344, Vol.22, 2000.2.

ADHIKARY, B.B. and MUTSUYOSHI, H., MORI, A. and SAKURAI, J. : Shear Strength Enhancement of Concrete Beams Using Different Methods and FEM Analysis, *Transactions of Japan Concrete Institute*, pp.131-138, Vol.22, 2000.2.

WITCHUKREANGKRAI, E. MUTSUYOSHI, H. ARAVINTHAN, T. and WATANABE, M.: Analysis of The Flexural Behavior of Externally Prestressed Concrete Beams with Large Eccentricities, *Transactions of Japan Concrete Institute*, pp. 319-324, Vol. 22, 2000.2.